

NRC INSPECTION MANUAL

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- 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 Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors 09/09/20 (20-041)
- 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
3800	<u>Procurement</u>
3900	<u>Records</u>
4000	<u>Review and Audit</u>
40002	Inspections to Review Allegations 06/28/02 (02-024)
40100	Independent Safety Culture Assessment Followup 07/26/18 (18-022)
40505	RESERVED for Effectiveness of Process to Identify, Resolve, and Prevent Construction Problems
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)
4100	<u>Training</u>
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)
4200	<u>Procedures</u>
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)
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43006	Inspection of the Implementation of Mitigation Strategies Order Regulating the Use of National SAFER Response Centers 06/16/22 (22-013)

4400	<u>Reserved</u>	
4500	<u>Geotechnical/Foundation</u>	
45052	Review of Geotechnical and Site Characterization Activities	04/05/22 (22-006)
4600	<u>Structural Concrete</u>	
4700	<u>Containment (Post-Tensioning)</u>	
4800	<u>Structural Steel and Supports</u>	
4900	<u>Piping</u>	
49001	Inspection of Erosion-Corrosion / Flow-Accelerated-Corrosion Monitoring Programs	12/11/98 (98-019) R
5000	<u>Mechanical Components and Equipment</u>	
50001	Steam Generator Replacement Inspection	09/12/17 (17-018)
50002	Steam Generators	12/31/96 (96-024) R
50003	Pressurizer Replacement Inspection	09/12/17 (17-018)
50054	Reactor Vessel Material Surveillance Program	12/04/08 (08-034)
50056	RESERVED for Reactor Vessel Material Surveillance Program	
5100	<u>Electrical Components and Systems</u>	
51080	Part 52, Environmental Qualification (EQ) Program for Electrical and Mechanical Equipment	06/26/17 (17-013)
5200	<u>Instrumentation Systems and Components</u>	
52003	Digital Instrumentation and Control Modification Inspection	07/09/21 (21-023)
5300	<u>Containment Penetrations</u>	
5400	<u>Cleanliness</u>	
5500	<u>Welding</u>	
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>
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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>
60705	Preparation for Refueling 07/27/95 (95-009) R
60710	Refueling Activities 07/27/95 (95-009) R
60715	Spent Fuel Pool Safety at Operating Reactors 09/16/20 (20-043)
60801	Spent Fuel Pool Maintenance, Surveillance, and Safety at Permanently Shutdown Reactors 09/09/20 (20-041)
60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System 05/16/19 (19-015)
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60852	ISFSI Component Fabrication by Outside Fabricators 08/17/23 (23-024)
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60854	Preoperational Testing of an Independent Spent Fuel Storage Installation 10/20/20 (20-052)
60855	Operation of an Independent Spent Fuel Storage Installation 11/25/20 (20-065)
60856	Review of 10 CFR 72.212(b) Evaluations 10/20/20 (20-052)
60857	Review of 10 CFR 72.48 Evaluations 10/20/20 (20-052)
60858	Away-From-Reactor Independent Spent Fuel Storage Installation Inspection Guidance 11/12/20 (20-062)
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>
61705	Calibration of Nuclear Instrumentation Systems 05/12/86 (86-25) R
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

6300 Construction Testing

6400 Fire Prevention/Protection

- 64102 RESERVED for Part 52 Post fire Safe Shutdown, Emergency Lighting and Oil Collection Capabilities
- 64704 Fire Protection Program at Permanently Shutdown Reactors 11/05/20 (20-059)
- 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)
- 65001.11A Part 52, Containment Structural Integrity Test 12/20/19 (19-041)
- 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)
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- 65001.15 Inspection of ITAAC-Related Installation of Fire Protection Equipment 07/01/08 (08-019)
- 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)
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69012	Class I Research and Test Reactors Radiation Protection 02/03/04 (04-004)
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69021	Inspections of Quality Assurance Program Implementation During Construction of Non-Power Production and Utilization Facilities 09/12/17 (17-018)
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73052	In-service Inspection - Review of Procedures 01/14/86 (86-03) R
73054	Part 52, Preservice and Inservice Inspection - Review of Program 03/04/20 (20-013)
73753	Inservice Inspection 06/24/98 (98-010) R
73754	Part 52 - Preservice Inspection - Non-Destructive Examination 09/23/19 (19-029)
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73757	Part 52 In-service Inspection - Data Review and Evaluation 09/23/19 (19-029)
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7500	<u>Reserved for ARCOP</u>
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7900 Water Chemistry

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- 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

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- 81000.02 Access Control 11/04/24 (24-035)
- 81000.03 Performance Evaluation Program 09/07/12 (12-020)
- 81000.04 Equipment Performance, Testing and Maintenance 11/04/24 (24-035)
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- 81000.06 Protection of Safeguards Information 02/13/19 (19-007)
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- 81000.09 Cyber Security Inspection for Construction 09/30/16 (16-025)
- 81000.10 Security Organization, Management Effectiveness, Program Reviews and Audits 09/07/12 (12-020)
- 81000.11 Material Control and Accounting (MC&A) 09/07/12 (12-020)
- 81000.14 Review of New Power Reactor Target Sets 11/04/24 (24-035)
- 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)
- 81200.01 Access Authorization for Decommissioning Nuclear Power Reactors 05/07/20 (20-024)
- 81200.02 Access Control for Decommissioning Nuclear Power Reactors 10/16/20 (20-051)
- 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)
- 81200.06 Protection of Safeguards Information for Decommissioning Nuclear Power Reactors 01/05/21 (21-001)
- 81200.07 Security Training for Decommissioning Nuclear Power Reactors 04/01/21 (21-017)
- 81200.08 RESERVED for Decommissioning Fitness for Duty Program

81200.09	Security Plan Changes for Decommissioning Power Reactors 02/18/21 (21-009)
81200.10	RESERVED for Decommissioning Cyber Security
81200.11	RESERVED for Decommissioning Material Control and Accounting
81200.14	Review of Decommissioning Target Sets 01/05/21 (21-001)
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81311	Physical Security Requirements for Independent Spent Fuel Storage Installations 06/28/22 (22-014)
81335	Physical Protection of Shipments of Special Nuclear Material of Moderate Strategic Significance 02/07/24 (24-006)
81340	Physical Protection of Shipments of Special Nuclear Material of Low Strategic Significance (SNM-LSS) 11/23/09 (09-028)
81360	General Requirements for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 12/02/09 (09-029)
81365	Records, Reports, and Planning for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 11/23/09 (09-028)
81370	Specific Requirements for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 12/22/08 (08-037)
81402	Reporting of Safeguards Events 11/23/09 (09-028)
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81431	Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance 10/24/12 (12-025)
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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)
70.52	Report of Accidental Criticality or Loss of Special Nuclear Material 11/15/74 (74-010)

Interpretations

OPERATING EXPERIENCE

SMART SAMPLES

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)

END