

# NRC INSPECTION MANUAL

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3500	<u>Quality Assurance</u>
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 Software Used in Nuclear Applications 01/30/18 (18-002)
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)

3800 Procurement

3900 Records

4000 Review and Audit

- 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)

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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)

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4300	<u>Vendor Procedures</u>
43002	Routine Inspections of Nuclear Vendors 02/10/23 (23-003)
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 06/01/22 (22-011)
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
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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)
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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
5600	<u>Calibration</u>
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
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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)
60851	Design Control of ISFSI Components 01/16/08 (08-003)
60852	ISFSI Component Fabrication by Outside Fabricators 08/17/23 (23-024)
60853	On-Site Fabrication of Components and Construction of an Independent Spent Fuel Storage Installation 08/17/23 (23-024)

- 60854 Preoperational Testing of an Independent Spent Fuel Storage Installation  
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- 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  
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- 60859 RESERVED for Initial Review of Aging Management Programs at  
Independent Spent Fuel Storage Installations
- 60860 RESERVED for Welding Verification Checklist for Transportation and  
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- 60861 RESERVED for Nondestructive Examination Procedure Visual  
Examination Procedure Review/Work Observation/Record Review of  
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- 60862 RESERVED for Nondestructive Examination Procedure Liquid Penetrant  
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Transportation ISFSI Components
- 60863 RESERVED for Nondestructive Examination Procedure Magnetic Particle  
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Transportation ISFSI Components
- 60864 RESERVED for Nondestructive Examination Procedure Ultrasonic  
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- 60865 RESERVED for Nondestructive Examination Procedure Radiographic  
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- 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  
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- 61710 Control Rod Worth Measurements for Pressurized Water Reactors  
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- 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  
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- 62002 Inspection of Structures, Passive Components, and Civil Engineering  
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- 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
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62712	Part 52, Maintenance Rule 08/13/13 (13-017) R
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6400	<u>Fire Prevention/Protection</u>
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	<u>10 CFR Part 52 ITAAC Inspections</u>
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)
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)
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)
65001.A	Inspection of the As-Built Attributes for Structures, Systems, and Components (SSCs) Associated with ITAAC 09/25/13 (13-023)
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65001.C	Inspection of the ITAAC-Related Construction Test Program 04/18/14 (14-010)
65001.D	Inspection of the ITAAC-Related Operational Testing Program 05/09/14 (14-011)
65001.E	Inspection of the ITAAC-Related Qualification Program 06/20/14 (14-013)
65001.F	Inspection of the ITAAC-Related Design and Fabrication Requirements 09/20/13 (13-022)
6600	<u>Reserved</u>
6700	<u>Reserved</u>
6800	<u>Reserved</u>
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69008	Class I Research and Test Reactor Procedures 02/03/04 (04-004)
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70313	Containment Integrated Leak Rate Test Surveillance 11/12/85 (85-36) R
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70367	Part 52, Inspection of Preoperational Test Program 10/20/20 (20-052)
70368	Part 52 Containment Leak Rate Testing Program (Programmatic) 06/26/17 (17-013)
70369	RESERVED for Part 52 Containment Leak Rate Testing
70371	RESERVED for Part 52 Testing of Pipe Support and Restraint System
70701	RESERVED
70702	Part 52, Inspection of Preoperational Test Performance 12/06/17 (17-028)

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71013	Site Inspection for Plants with a Timely Renewal Application 06/26/23 (23-018)
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71111.04	Equipment Alignment 09/19/23 (23-028)
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71111.11	Licensed Operator Requalification Program and Licensed Operator Performance 12/19/21 (21-041)

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71111.13	Maintenance Risk Assessments and Emergent Work Control 08/01/22 (22-015)
71111.15	Operability Determinations and Functionality Assessments 10/05/20 (20-046)
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71113	RESERVED for Review of License Renewal Commitments for Plants in Timely Renewal
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71114.04	Emergency Action Level and Emergency Plan Changes 07/21/16 (16-017)
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71114.06	Drill Evaluation 07/21/16 (16-017)
71114.07	Exercise Evaluation-Hostile Action (HA) Event 07/21/16 (16-017)
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71124.05	Radiation Monitoring Instrumentation 03/04/20 (20-014)
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71130.12	RESERVED for Physical Protection of Shipments of Irradiated Fuel
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72501	RESERVED for Part 52 Initial Fuel Load Procedure Review
72525	RESERVED for Part 52 Initial Fuel Load Witnessing
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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
73754	Part 52 - Preservice Inspection - Non-Destructive Examination 09/23/19 (19-029)
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)
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7500	<u>Reserved for ARCOP</u>
7600	<u>Reserved</u>
7700	<u>Reserved</u>
7800	<u>High Level Waste</u>
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7900	<u>Water Chemistry</u>
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.
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81000	Security 01/29/19 (19-004)
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81000.03	Performance Evaluation Program 09/07/12 (12-020)
81000.04	Equipment Performance, Testing and Maintenance 07/01/19 (19-020)
81000.05	Protective Strategy Evaluation 09/24/19 (19-030)
81000.06	Protection of Safeguards Information 02/13/19 (19-007)
81000.07	Security Training 09/24/19 (19-030)
81000.08	Fitness-for-Duty (FFD) Operational Program 09/07/12 (12-020)
81000.09	Cyber Security Inspection for Construction 09/30/16 (16-025)
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81000.11	Material Control and Accounting (MC&A) 09/07/12 (12-020)
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81200	Security 07/28/20 (20-035)
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81200.02	Access Control for Decommissioning Nuclear Power Reactors 10/16/20 (20-051)
81200.03	RESERVED for Decommissioning Force-on-Force Testing
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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
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81335	Physical Protection of Shipments of Special Nuclear Material of Moderate Strategic Significance (SNM-MSS) 12/02/09 (09-029)
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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)
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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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<sup>2</sup> [XXXX.XX] attached to each document in Part 9900, is the file name for that document.

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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)
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
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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 <b>R</b>
FY2008/01	Negative Trend and Recurring Events Involving Emergency Diesel Generators 11/29/07 <b>R</b>
FY2009/01	Inspection of Electrical Connections for Motor Control Center, Circuit Breakers, and Interfaces 10/29/08 <b>R</b>
FY 2009/02	Negative Trend and Recurring Events Involving Feedwater Systems 12/23/08 <b>R</b>
FY2012/02 Rev 1	Technical Specification Interpretation and Operability Determination 05/17/12 <b>R</b>
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) <b>R</b>
FY2019/01	Commercial Grade Dedication, Procurement, and Design Control 07/30/19 (19-025)
FY2020/01	Flex Equipment Design Control, Maintenance, and Testing 10/21/20 (20-053)

END