

# NRC INSPECTION MANUAL

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2901	Team Inspections 05/20/22 (22-010)
2920	Construction Appraisal Team Inspection Program 03/29/85 (85-11)

3000 Management Meetings

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 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>
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 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)

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
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>
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)
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 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)
- 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)
65001.B	Inspection of the ITAAC-Related Welding and Nondestructive Examination Programs 11/04/19 (19-034)
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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)
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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71003	Post-Approval Site Inspection for License Renewal 08/11/23 (23-023)
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71111.17T	Evaluations of Changes, Tests, and Experiments 12/08/16 (16-032) R
71111.18	Plant Modifications 08/01/22 (22-015)
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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)
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71114.02	Alert and Notification System Evaluation 07/21/16 (16-017)
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71130.03	Contingency Response - Force-On-Force Testing 11/15/23 (23-034)
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71130.05	Protective Strategy Evaluation and Performance Evaluation Program 11/15/23 (23-034)
71130.06	Protection of Safeguards Information 09/30/16 (16-024)
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71130.13	RESERVED for Security Inspections Conducted by Resident Inspectors
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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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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
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73756	In-service Testing of Pumps and Valves 07/27/95 (95-009) R
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7400 Reserved

7500 Reserved for ARCOP

7600 Reserved

7700 Reserved

7800 High Level Waste

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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)  
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80600 RESERVED for Independent Assessment of Site Radiological Conditions

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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)

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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  
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81000.11 Material Control and Accounting (MC&A) 09/07/12 (12-020)

81000.14 Review of New Power Reactor Target Sets 01/29/19 (19-004)

81072 Access Control (Power Reactor) - Packages 05/09/84 (84-15) R

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

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## Operations

Notice of Enforcement Discretion for Gaseous Diffusion Plants  
05/03/99 (99-008) [NOEDGAS.TG]  
Operation - Safety and Compliance 09/11/07 (07-028)  
[TG 9900 SAFETY]

## **PART**

### **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 <b>R</b>
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>
FY2009/02	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)
FY2023/01	Digital Instrumentation and Controls 02/12/24 (24-007)
FY2023/02	Probabilistic Risk Assessment Configuration Control 01/09/24 (24-002)

END