

# NRC INSPECTION MANUAL

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30800	Initial Management Meeting Materials Licensees 10/01/76 (76-26)
3100	<u>Reserved</u>
3200	<u>Reserved</u>
3300	<u>Reserved</u>
3400	<u>Reserved</u>
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	<u>Organization and Administration</u>
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	<u>Design, Design Changes, Modifications</u>
37060	10 CFR 50.69 Risk-Informed Categorization and Treatment of Structures, Systems, and Components Inspection 10/18/22 (22-023)
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37803	RESERVED
37804	Aircraft Impact Assessment 03/23/20 (20-017)
37805	Engineering Design Verification Inspections 04/08/20 (20-020)
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)

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- 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 Vendor Procedures

- 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 Reserved

4500 Geotechnical/Foundation

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4600 Structural Concrete

4700 Containment (Post-Tensioning)

4800 Structural Steel and Supports

4900 Piping

- 49001 Inspection of Erosion-Corrosion / Flow-Accelerated-Corrosion Monitoring Programs 12/11/98 (98-019) R

5000 Mechanical Components and Equipment

- 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 Electrical Components and Systems

51080 Part 52, Environmental Qualification (EQ) Program for Electrical and 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  
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5600 Calibration

56700 Calibration 03/23/05 (05-008) R

5700 Nondestructive Examination, Destructive Examination and Fabrication Testing

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  
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5800 Special Processes

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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 Spent Fuel Pool Maintenance, Surveillance, and Safety at Permanently  
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60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System 05/16/19 (19-015)
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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	RESERVED for Initial Review of Aging Management Programs at Independent Spent Fuel Storage Installations
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 Maintenance

- 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)

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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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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)
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6700	<u>Reserved</u>
6800	<u>Reserved</u>
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69001	Class II Research and Test Reactors 02/03/04 (04-004)
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69005	Class I Research and Test Reactor Experiments 02/03/04 (04-004)
69006	Class I Research and Test Reactors Organization and Operations and Maintenance Activities 02/03/04 (04-004)
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69008	Class I Research and Test Reactor Procedures 02/03/04 (04-004)
69009	Class I Research and Test Reactor Fuel Movement 02/03/04 (04-004)
69010	Class I Research and Test Reactor Surveillance 02/03/04 (04-004)
69011	Class I Research and Test Reactor Emergency Preparedness 02/03/04 (04-004)
69012	Class I Research and Test Reactors Radiation Protection 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)
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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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71004	Power Uprate 02/09/22 (22-003)
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71013	Site Inspection for Plants with a Timely Renewal Application 06/26/23 (23-018)
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71111.01	Adverse Weather Protection 08/01/22 (22-015)
71111.04	Equipment Alignment 09/19/23 (23-028)
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71111.06	Flood Protection Measures 08/01/22 (22-015)
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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)
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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71111.21N.05	Fire Protection Team Inspection (FPTI) 06/12/19 (19-019)
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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71114.06	Drill Evaluation 07/21/16 (16-017)
71114.07	Exercise Evaluation-Hostile Action (HA) Event 07/21/16 (16-017)
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71124.04	Occupational Dose Assessment 12/23/19 (19-042)
71124.05	Radiation Monitoring Instrumentation 03/04/20 (20-014)
71124.06	Radioactive Gaseous and Liquid Effluent Treatment 03/04/20 (20-014)
71124.07	Radiological Environmental Monitoring Program 03/04/20 (20-014)
71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation 03/04/20 (20-014)
71130	Security 12/06/23 (23-035)
71130.01	Access Authorization 12/21/23 (23-039)
71130.02	Access Control 12/18/23 (23-038)
71130.03	Contingency Response - Force-On-Force Testing 11/15/23 (23-034)

71130.04	Equipment Performance, Testing and Maintenance 09/30/16 (16-024)
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)
71130.07	Security Training 01/02/24 (24-001)
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71130.12	RESERVED for Physical Protection of Shipments of Irradiated Fuel
71130.13	RESERVED for Security Inspections Conducted by Resident Inspectors
71130.14	Review of Power Reactor Target Sets 03/09/23 (23-008)
71150	Discrepant or Unreported Performance Indicator Data 04/30/19 (19-013)
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71303	Part 52, Technical Specifications Review 07/08/20 (20-031)
71715	Sustained Control Room and Plant Observation 04/14/92 (92-004) R
71801	Decommissioning Performance and Status Reviews at Permanently Shutdown Reactors 09/30/20 (20-045)
71841	Human Performance 12/12/00 (00-027) R

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72401	Part 52, Inspection of Startup Test Program 12/07/20 (20-069)
72501	RESERVED for Part 52 Initial Fuel Load Procedure Review
72525	RESERVED for Part 52 Initial Fuel Load Witnessing
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
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)
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 Reserved

7500 Reserved for ARCOP

7600 Reserved

7700 Reserved

7800 High Level Waste

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  
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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

81000 Security 01/29/19 (19-004)

81000.01 Access Authorization 04/01/19 (19-011)

81000.02 Access Control 04/01/19 (19-011)

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)

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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81200.01	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)
81421	Fixed Site Physical Protection of Special Nuclear Material of Moderate Strategic Significance 02/07/24 (24-006)
81431	Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance 10/24/12 (12-025)
81501	Personnel Training and Qualification - General Requirements 12/02/09 (09-029)
81504	Fitness for Duty Program for Construction 10/15/09 (09-024)
81505	Protection of Safeguards Information for Construction 02/13/19 (19-007)
81601	Fixed Site Physical Protection of Formula Quantities of Strategic Special Nuclear Material – Non-Power Reactors 03/13/20 (20-015)
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)
81606	Material Control and Accounting – Non-Power Reactors 03/13/20 (20-015)
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## Interpretations

## **OPERATING EXPERIENCE** **SMART SAMPLES**

FY2007/01	PWR Containment Sump Recirculation Pipe Foreign Material Blockage 11/20/06
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)
<b>FY2023/01</b>	<b>Digital Instrumentation and Controls 02/12/24 (24-007)</b>
FY2023/02	Probabilistic Risk Assessment Configuration Control 01/09/24 (24-002)

END