

NRC INSPECTION MANUAL

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TABLE OF CONTENTS

Table of Contents Current through Change Notice 20-002 issued 01/07/2020

PART

CHAPTER

0000 NRC Inspection Manual¹

0040 Preparing, Revising, and Issuing Documents for the NRC
Inspection Manual 01/05/18 (18-001)

0100 Program Responsibilities

0102 Oversight and Objectivity of Inspectors and Examiners
at Reactor Facilities 04/24/13 (13-012)

0111 Monitoring Activities for the DOE West Valley
Demonstration Project 03/04/02 (02-006)

0200 Program Management Reports

0300 Inspection Policy

0301 Coordination of NRC Visits to Commercial Reactor Sites
08/24/01 (01-016)

0302 RESERVED Coordination of Regional Requests for NRR Staff to
Conduct Inspection Activities

0303 Health Physics Positions (HPPOS) 07/10/19 (19-023)

0305 Operating Reactor Assessment Program 11/25/19 (19-037)

0306 Planning, Tracking, and Reporting of the Reactor Oversight Process
11/04/19 (19-034)

0307 Reactor Oversight Process Self-Assessment Program
11/23/15 (15-025)

0307, App A Reactor Oversight Process Self-Assessment Metrics 08/25/17 (17-016)

0307, App B ROP Realignment Process 08/25/17 (17-016)

0307, App C Reactor Oversight Process Self-Assessment Regional Peer Reviews
07/15/16 (16-016)

0307, App D Power Reactor Resident Inspector Retention and Recruitment Program
Monitoring and Assessment 05/21/19 (19-016)

0308 Reactor Oversight Process (ROP) Basis Document 10/04/17 (17-021)

0308, Att 1 Technical Basis for Performance Indicators 11/08/07 (07-035)

0308, Att 2 Technical Basis for Inspection Program 05/29/19 (19-017)

¹The date and numbers in parentheses to the right of the chapter/inspection procedure title are the issue date and the change notice number under which the title was issued.

0308, Att 3	Technical Basis for Significance Determination Process 06/16/16 (16-013)
0308, Att 3, App A	Technical Basis for At Power Significance Determination 06/19/12 (12-010)
0308, Att 3, App B	Technical Basis for Emergency Preparedness Significance Determination Process 12/19/12 (12-029)
0308, Att 3, App C	Technical Basis for Occupational Radiation Safety Significance Determination Process 07/28/05 (05-022)
0308, Att 3, App D	Technical Basis for Public Radiation Safety Significance Determination Process 07/27/04 (04-020)
0308, Att 3, App E	Technical Basis for the Baseline Security Significance Determination Process 07/27/12 (12-016)
0308, Att 3, App F	Technical Basis for Fire Protection Significance Determination Process [IMC 0609, Appendix F] At Power Operations 05/02/18 (18-010)
0308, Att 3, App G	Technical Basis for Shutdown Operations Significance Determination Process 02/28/05 (05-007)
0308, Att 3, App H	Technical Basis for Containment Integrity Significance Determination Process 05/06/04 (04-010)
0308, Att 3, App I	Technical Basis for Operator Requalification Human Performance Significance Determination Process 07/28/05 (05-022)
0308, Att 3, App J	Technical Basis for Steam Generator Tube Integrity Findings Significance Determination Process 07/06/11 (11-011)
0308, Att 3, App K	Technical Basis for Maintenance Risk Assessment and Risk Management SDP 05/19/05 (05-014)
0308 Att 3 App L	Technical Basis for the B.5.b Significance Determination Process 03/28/17 (17-008)
0308 Att 3 App M	Technical Basis for the Significance Determination Process (SDP) Using Qualitative Criteria 01/10/19 (19-002)
0308, Att 4	Technical Basis for Assessment 05/15/17 (17-010)
0308, Att 5	Technical Basis for Enforcement 10/16/06 (06-027)
0308, Att 6	Basis Document for the Security Cornerstone of the Reactor Oversight Process 09/08/09 (09-021)
0309	Reactive Inspection Decision Basis for Reactors 10/28/11 (11-023)
0310	Aspects Within the Cross-Cutting Areas 02/25/19 (19-008)
0312	Technical Assistance for Radiation Safety Inspections at Nuclear Fuel Cycle Facilities and Materials Licensees' Sites 06/06/02 (02-023)
0326	Operability Determinations and Functionality Assessments for Conditions Adverse to Quality or Safety 09/30/19 (19-032)
0327	Steam Generator Tube Primary-to-Secondary Leakage 11/01/18 (18-037)
0330	Guidance for NRC Review of Licensee Draft Documents 07/08/96 (96-015)
0350	Oversight of Operating Reactor Facilities in a Shutdown Condition With Performance Problems 03/01/18 (18-006)
0351	Now IMC 0375
0375	Implementation of the Reactor Oversight Process at Reactor Facilities in an Extended Shutdown Condition for Reasons Not Related to Performance 11/13/15 (15-024)

0400 Enforcement Policy

0500 Tracking Systems

0600 Documentation of Program Findings

0608 Performance Indicator Program 02/05/19 (19-005)
0609 Significance Determination Process 10/23/18 (18-036)
0609.01 Significance and Enforcement Review Panel Process
10/23/18 (18-036)
0609.02 Process for Appealing NRC Characterization of Inspection
Findings (SDP Appeal Process) 06/08/11 (11-010)
0609.02 Process for Appealing NRC Characterization of Inspection
Findings (SDP Appeal Process) Effective Date: 01/01/2019
10/23/18 (18-036)
0609.03 Senior Reactor Analyst (SRA) and Risk Analyst Support Expectations
04/29/15 (15-008)
0609.04 Initial Characterization of Findings 12/13/19 (19-040)
0609.05 Inspection Findings Review Board 12/07/18 (18-041)
0609, App A Determining the Significance of Reactor Inspection Findings for At-
Power Situations 12/13/19 (19-040)
0609, App B Emergency Preparedness Significance Determination Process
09/22/15 (15-017)
0609, App C Occupational Radiation Safety Significance Determination
Process 08/19/08 (08-024)
0609, App D Public Radiation Safety Significance Determination Process
02/12/08 (08-007)
0609, App E Security Significance Determination Process for
Power Reactors 10/08/15 (15-019)
0609, App E Part I Baseline Security Significance Determination Process for
Power Reactors 09/17/18 (18-032)
0609, App E Part II Force-on-Force Significance Determination Process
01/15/14 (14-001)
0609, App E Part III Construction Fitness-for-Duty Significance Determination Process
– Pilot 07/26/18 (18-021)
0609, App E Part IV Cyber Security Significance Determination Process for Power
Reactors 08/15/17 (17-014)
0609, App F Fire Protection Significance Determination Process 05/02/18 (18-010)
0609, App F, Att 1 Fire Protection SDP Worksheet 05/02/18 (18-010)
0609, App F, Att 2 Degradation Rating Guidance 05/02/18 (18-010)
0609, App F, Att 3 Guidance for Identifying Credible Fire Scenarios
05/02/18 (18-010)
0609, App F, Att 4 Guidance for Determining Fire Ignition Frequency 05/02/18 (18-010)
0609, App F, Att 5 Characterizing Fire Ignition Sources 05/02/18 (18-010)

0609, App F, Att 6 Guidance for the Identification of Targets and Their Ignition
and Damage Criteria 05/02/18 (18-010)
0609, App F, Att 7 Guidance for Fire Non-Suppression Probability Analysis
05/02/18 (18-010)

0609, App F, Att 8	Tables and Plots Supporting the Phase 2 Risk Quantification	05/02/18 (18-010)
0609, App G	Shutdown Operations Significance Determination Process	05/09/14 (14-011)
0609, App G, Att 1	Shutdown Operations Significance Determination Process	
	Phase 1 Operational Checklists for Both PWRs and BWRs	05/09/14 (14-011)
0609, App G, Att 2	Phase 2 Significance Determination Process Template for PWR during Shutdown	02/28/05 (05-007)
0609, App G, Att 3	Phase 2 Significance Determination Process Template for BWR during Shutdown	02/28/05 (05-007)
0609, App H	Containment Integrity Significance Determination Process	02/25/19 (19-008)
0609, App I	Licensed Operator Requalification Significance Determination Process	01/10/19 (19-001)
0609, App J	Technical Basis for Steam Generator Tube Integrity Findings	07/06/11 (11-011)
0609, App K	Maintenance Risk Assessment and Risk Management Significance Determination Process	05/19/05 (05-014)
0609, App L	B.5.b Significance Determination Process	12/24/09 (09-032)
0609, App M	Significance Determination Process Using Qualitative Criteria	01/10/19 (19-002)
0609 App N	RESERVED SDP for ISFSI at Operating Plants	
0610	Nuclear Material Safety and Safeguards Inspection Reports	05/18/04 (04-014)
0611	Power Reactor Inspection Reports	08/19/19 (19-027)
	Effective Date:	01/01/18
0611.02	Guidance for Reactive Inspection Reports	07/30/19 (19-025)
0611, Exh 1	Standard Reactor Inspection Report Outline	12/13/17 (17-029)
	Effective Date:	01/01/18
0611, Exh 2	Inspection Report Documentation Matrix	12/13/17 (17-029)
	Effective Date:	01/01/18
0611, Exh 4	Inspection Report Cover Letter Templates	10/09/19 (19-033)
0611, App A	Acronyms Used in Inspection Reports	12/13/17 (17-029)
	Effective Date:	01/01/18
0611, App C	Guidance for Supplemental Inspection Reports	12/13/17 (17-029)
	Effective Date:	01/01/18
0611, App D	Guidance for Problem Identification and Resolution Inspection Reports	12/13/17 (17-029)
	Effective Date:	01/01/18
0612	Issue Screening	12/12/19 (19-039)
0612, Exh 1	Standard Reactor Inspection Report	02/07/14 (14-005)
0612, Exh 2	Inspection Report Documentation Matrix	09/04/14 (14-020)
0612, Exh 3	RESERVED for Sample Reactor Inspection Report (temporarily suspended pending revision)	
0612, App A	Acronyms Used in IMC 0612	12/04/08 (08-034)
0612, App B	Additional Issue Screening Guidance	12/12/19 (19-038)
0612, App B	Issue Screening	12/13/17 (17-029)
	Effective Date:	01/01/18
0612, App C	Documentation Guidance for Supplemental Inspections	10/28/11 (11-024)
0612, App C Exh1	Sample Supplemental Inspection Report for IP 95001 and IP 95002	10/28/11 (11-024)

0612, App D	Guidance for Documenting Inspection Procedure 71152, "Identification and Resolution of Problems" 08/13/13 (13-017)
0612, App E	Examples of Minor Issues 12/23/19 (19-042)
0612, App G	Emergency Planning Cornerstone- Specific Supplemental Guidance for Appendix B Screening Figures 1 and 2 09/09/13 (13-020)
0613	Power Reactor Construction Inspection Reports 10/01/18 (18-033)
0614	Documenting 10 CFR Part 52 Construction Audit Activities 10/03/07 (07-030)
0615	Research and Test Reactor Inspection Reports 06/23/04 (04-018)
0616	Fuel Cycle Safety and Safeguards Inspection Reports 08/15/17 (17-014)
0617	Vendor and Quality Assurance Implementation Inspection Reports 09/06/18 (18-030)
0620	Inspection Documents and Records 01/28/19 (19-003)
 0700	 <u>Communications with Licensees</u>
0730	Generic Communications Regarding Materials and Fuel Cycle Issues 03/21/08 (08-011)
 0800	 <u>Feedback - Improving the Regulatory Process</u>
0801	Inspection Program Feedback Process 12/19/16 (16-034)
0802	RESERVED for the Part 52 Program
 0900	 <u>Reporting of Events/Incidents</u>
 1000	 <u>Regional Office Program Interfaces</u>
1007	Interfacing Activities between Regional Offices of NRC and OSHA 05/06/16 (16-012)
 1100	 <u>Notifications of Meetings and Conferences</u>
1120	Preliminary Notifications 09/13/13 (13-021)
 1200	 <u>Inspector Requirements</u>
1201	Conduct of Employees 07/29/16 (16-019)
1202	Senior Resident Inspector Site Turnover 06/28/18 (18-017)
1220	Processing of NRC Form 241, "Report of Proposed Activities In Non-Agreement States," Areas of Exclusive Federal Jurisdiction and Offshore Waters, and Inspection of Agreement State Licensees Operating Under 10 CFR 150.20 05/01/03 (03-013)

1220, App I	Procedures and Guidelines for Processing NRC Form 241 05/01/03 (03-013)
1220, App II	Procedures Letter to be Sent to Licensees with Procedures and Information for Filing NRC Form 241 05/01/03 (03-013)
1220, App III	Inspection of Agreement State Licensees 05/01/03 (03-013)
1230	Quality Assurance Program for Radiological Confirmatory Measurements 10/01/83 (83-12)
1232	Collection, Preparation, and Shipment of Independent Measurement Samples 11/18/86 (86-52)
1240	Unescorted Access at Power Reactors 01/28/19 (19-003)
1245	Qualification Program for Operating Reactor Programs 08//23/18 (18-029)
1245, Att 1	General Overview of the Inspector Training and Qualification Program 08/24/17 (17-015)
1245, Att 2	Inspector Competencies 10/31/06 (06-032)
1245, Att 3	General Orientation Topics 10/31/06 (06-032)
1245, App A	Basic-Level Training and Qualification Journal 07/30/18 (18-023)
1245, App B	General Proficiency-Level Training and Qualification Journal 07/30/18 (18-023)
1245, App C1	Reactor Operations Inspector Technical Proficiency Training and Qualification Journal 12/19/16 (16-034)
1245, App C2	Reactor Engineering Inspector Technical Proficiency Training and Qualification Journal 08/23/18 (18-029)
1245, App C3	Health Physics Inspector Technical Proficiency Training and Qualification Journal 02/20/17 (17-004)
1245, App C4	Reactor Security Inspector Technical Proficiency Qualification Training and Qualification Journal 11/29/13 (13-027)
1245, App C5	Research and Test Reactor Inspector Technical Proficiency Qualification Journal 07/08/09 (09-017)
1245, App C6	Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 08/23/18 (18-029)
1245, App C7	Fire Protection Inspector Technical Proficiency Training and Qualification Journal 07/30/18 (18-023)
1245, App C8	Vendor Inspector Technical Proficiency Qualification Journal 07/30/18 (18-023)
1245, App C9	Senior Reactor Analyst Training and Qualification Program 07/30/18 (18-023)
1245, App C10	Operator Licensing (OL) Examiner Technical Proficiency Training and Qualification Journal 10/21/15 (15-020)
1245, App C11	Security Risk Analyst Technical Proficiency Training and Qualification Journal 08/30/13 (13-019)
1245, App C12	Safety Culture Assessor Training and Qualification Journal 02/28/19 (19-009)
1245, App C13	Independent Spent Fuel Storage Installation Security Inspector Technical Proficiency Training and Qualification Journal 08/08/13 (13-016)
1245, App C14	Cyber Security Inspector Technical Proficiency Training and Qualification Journal 08/03/15 (15-014)
1245, App C15	Construction Inspector Technical Proficiency Training and Qualification Journal 08/15/17 (17-014)
1245 App C16	RESERVED for RTR training qualifications
1245, App D1	Maintaining Qualifications 06/07/18 (18-014)

1245, App D2	Inservice Inspection Advanced-Level Training	10/21/15 (15-020)
1245, App D3	Fire Protection Advanced-Level Training	08/23/18 (18-029)
1245, App D4	Advanced Electrical Inspector Technical Proficiency Training and Qualification Journal	12/29/11 (11-044)
1246	Formal Qualification Programs in the Nuclear Material Safety and Safeguards Program Area	10/26/11 (11-022)
1246, App A	Training Activities	10/26/11 (11-022)
1246, App B1	Training Requirements and Qualification Journal for Spent Fuel Storage and Transportation Reviewer	10/26/11 (11-022)
1246, App B2	Training Requirements and Qualification Journal for Spent Fuel Storage and Transportation Inspector	10/26/11 (11-022)
1246, App B3	Training Requirements and Qualification Journal for Independent Spent Fuel Storage Installation Inspector	11/07/11 (11-028)
1246, App B4	Independent Spent Fuel Storage Installation Security Inspector Technical Proficiency Training and Qualification Journal	08/08/13 (13-016)
1246, App C1	Training Requirements and Qualification Journal for Fuel Cycle License Reviewer	10/26/11 (11-022)
1246, App C2	Training Requirements and Qualification Journal for Fuel Cycle Project Manager	10/26/11 (11-022)
1246, App C3	Training Requirements and Qualification Journal for Material Control and Accounting License Reviewer	10/26/11 (11-022)
1246, App C4	Training Requirements and Qualification Journal for Fuel Cycle Safeguards Physical Security Inspector	10/26/11 (11-022)
1246, App C5	Training Requirements and Qualification Journal for International Safeguards Analysts, Nuclear Materials Management and Safeguards System (NMMSS) Analysts, and Import/Export Analysts	06/27/16 (16-014)
1246, App D1	Training Requirements and Qualification Journal for High Level Waste Repository License Technical Reviewer	10/26/11 (11-022)
1246, App D2	Training Requirements and Qualification Journal for High Level Waste Repository Inspector	10/26/11 (11-022)
1247	Qualification Program for Fuel Facility Inspectors in the Nuclear Material Safety and Safeguards Program Area	10/28/14 (14-026)
1247, App A	Basic-Level Training and Certification Journal Fuel Facility Inspector	06/27/14 (14-014)
1247, App B	General Proficiency-Level Training and Qualification Journal	06/11/14 (14-012)
1247, App C1	Fuel Facility Operations Inspector Technical Proficiency Training and Qualification Journal	06/11/14 (14-012)
1247, App C2	Fuel Facility Health Physics Inspector Technical Proficiency Training and Qualification Journal	06/20/2014 (14-013)
1247, App C3	Fuel Facility Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal	06/11/14 (14-012)
1247, App C5	Fuel Facility Material Control & Accounting Inspector Technical Proficiency Training and Qualification Journal	06/11/14 (14-012)
1247, App C6	Fuel Facility Nuclear Criticality Safety Inspector Technical Proficiency Training and Qualification Journal	06/11/14 (14-012)
1247, App D	RESERVED for Advanced and Specialized Training Courses and Qualification Programs	
1247, App D1	Fuel Facility Information Security Inspector Specialized Qualification Program Training and Qualification Journal	10/28/14 (14-026)

1248	Formal Qualification Programs for Federal and State Materials and Environmental Management Programs 04/19/13 (13-011)
1248, App A	Materials Health Physics License Review Qualification Journal 04/19/13 (13-011)
1248, App B	Materials Health Physics Inspector Qualification Journal 04/19/13 (13-011)
1248, App C	Training Requirements and Qualification Journal for Materials Exempt Distribution License Reviewer 04/19/13 (13-011)
1248, App D	Training Requirements and Qualification Journal for Byproduct Material Sealed Source and Device Reviewer 04/19/13 (13-011)
1248, App E	Training Requirements and Qualification Journal for Division of Waste Management Inspector and License Reviewer 04/19/13 (13-011)
1248, App F	Training Requirements and Qualification Journal for Decommissioning Inspectors 10/07/16 (16-026)
1248, App G	Training Requirements and Qualification Journal for Decommissioning Project Managers and Technical Reviewers 01/13/16 (16-002)
1248, App H	Training Requirements and Qualification Journal for Uranium Recovery Inspector 04/19/13 (13-011)
1248, App I	Training Requirements and Qualification Journal for Uranium Recovery Project Manager/Technical Reviewer 07/02/19 (19-021)
1248 App J	RESERVED

1300 Incident Response

1301	Response to Non-Emergency Incidents Involving Radioactive Material 10/20/00 (00-022)
1302	Action Levels for Radiation Exposures and Contamination Associated with Materials Events Involving Members of the Public 07/14/05 (05-019)
1303	Requesting Emergency Acceptance of Radioactive Material by the U.S. Department of Energy 11/29/07 (07-037)
1304	RESERVED for Independent Split Sampling Program for Residual Radioactivity
1330	Response to Transportation Accidents Involving Radioactive Materials 10/06/04 (04-025)
1360	Use of Physician and Scientific Consultants in the Medical Consultant Program 11/02/06 (06-033)

1400 Environmental Monitoring

1415	State Contracts for Environmental Monitoring 06/28/91 (91-009)
------	--

1500 Reserved

1600 Emergency Preparedness

1601	Communication Protocol for Assessing Offsite Emergency Preparedness Following a Natural Disaster 06/29/18 (18-018)
1700	<u>Reserved</u>
1800	<u>Reserved</u>
1900	<u>Reserved</u>
2000	<u>Reserved</u>
2100	<u>Reserved</u>
2200	<u>Nuclear Security and Incident Response</u>
2200	Security Inspection Program for Construction 09/07/12 (12-020)
2200, App A	Security Construction Inspection Program 01/29/19 (19-004)
2201	Security Inspection Program for Commercial Nuclear Power Reactors 08/20/18 (18-026)
2201, App A	Security Baseline Inspection Program 09/11/18 (18-031)
2201, App B	Supplemental Inspection Program 08/20/18 (18-026)
2201, App C	Generic, Special, and Infrequent Inspections 08/20/18 (18-026)
2201, App D	Facility Status Reviews for Security and Safeguards Inspection Program 11/01/18 (18-037)
2201/003	RESERVED for Fitness for Duty Part 26 Subpart K
2201/005	Inspection of TVA WB1, Implementation of the Cyber Security Program Required by 10 CFR 73.54 and 10 CFR 73.55 07/03/14 (14-015)
2202	Security Inspection Program for Decommissioning Reactors 08/27/14 (14-019)
2202, App A	Security Core Inspection Program 08/27/14 (14-019)
2202, App B	Security Discretionary Inspection Program 10/06/14 (14-023)
2300	<u>High Level Waste</u>
2300	Yucca Mountain Inspection Program License Application Review Period 09/11/08 (08-026)
2400	<u>Low Level Waste Program</u>
2401	Near-Surface Low-Level Radioactive Waste Disposal Facility Inspection Program 11/27/01 (01-028)
2410	Conduct of Observation Audits 07/12/00 (00-012)

2500 Reactor Inspection Program

2501	Construction Inspection Program: Early Site Permit (ESP) 06/06/13 (13-013)
2502	Construction Inspection Program: Pre-Combined License (Pre-COL) Phase 12/13/10 (10-026)
2503	Construction Inspection Program: Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) 07/05/12 (12-012)
2504	Construction Inspection Program: Inspections of Construction and Operational Programs 04/02/19 (19-012)
2505	Periodic Assessment of Construction Inspection Program Results 01/06/17 (17-001)
2506	Construction Reactor Oversight Process General Guidance and Basis Document 07/02/19 (19-021)
2507	Construction Inspection Program: Vendor Inspections 12/20/19 (19-041)
2508	Construction Inspection Program: Design Certification 09/06/16 (16-022)
2514	AP1000 Reactor Inspection Program – Startup Testing Phase 02/28/19 (19-009)
2515	Light Water Inspection Program - Operations Phase 12/20/19 (19-041)
2515, App A	Risk-Informed Baseline Inspection Program 07/26/19 (19-024)
2515, App B	Supplemental Inspection Program 12/18/15 (15-031)
2515, App C	Special and Infrequently Performed Inspections 05/01/19 (19-014)
2515, App D	Plant Status 11/19/18 (18-039)
2515, App E	Inspection Program Modifications during a Pandemic 01/26/07 (07-004)
2515, App F	Reactor Construction Activities near Operating Unit(s) 06/02/11 (11-009)
2515, App G	Baseline Inspection Guidance for Power Reactors Preparing for Transition to Decommissioning Phase 02/01/16 (16-004)
2515/176	Emergency Diesel Generator Technical Specification Surveillance Requirements Regarding Endurance and Margin Testing 05/16/08 08-015
2515/179 Rev. 1	Verification of Licensee Responses To NRC Requirement for Inventories of Materials Tracked in the National Source Tracking System Pursuant to Title 10, Code of Federal Regulations, Part 20.2207 (10 CFR 20.2207) 05/27/10 (10-014)
2515/193	Inspection of the Implementation of Order EA-13-109, “Order Modifying Licensees with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions,” 10/10/17 (17-022)
2515/194	Inspection of the Licensees’ Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems (NRC Bulletin 2012-01) 10/31/17 (17-024)
2516	Policy and Guidance for the License Renewal Inspection Programs 08/13/13 (13-017)
2518	RESERVED for Construction Inspection Program: Advanced Reactors, Pre-Construction Permit (CP)
2519	Construction Significance Determination Process 12/06/17 (17-028)
2522	Construction Reactor Oversight Process Self-Assessment Program 07/28/14 (14-017)
2522, App A	Construction Reactor Oversight Process Self-Assessment Metrics 10/03/17 (17-021)
2523	NRC Application of the Reactor Operating Experience Program in NRC Oversight Processes 06/19/13 (13-014)

2545	Research and Test Reactor Inspection Program 06/23/04 (04-018)
2550	Non-Power Protection Facilities (NPUFs) Licensed Under 10 CFR Part 50: Construction Inspection Program (CIP) 05/01/18 (18-009)
2561	Decommissioning Power Reactor Inspection Program 03/06/18 (18-007)

2600 Fuel Cycle Facility Inspection Program

2600	Fuel Cycle Facility Operational Safety and Safeguards Inspection Program 03/11/19 (19-010)
2600, App A	Guidance for Conducting Fuel Cycle Inspections 09/24/15 (15-018)
2600, App B	NRC Core Inspection Requirements, Tables 1 and 2 06/12/18 (18-015)
2600, App C	Fuel Cycle Resident Inspection Program 10/09/19 (19-033)
2600, App D	Fuel Cycle Facility Inspection Planning 06/12/18 (18-015)
2600/016	Inspection of Activities Associated with NRC Generic Letter 2015-01 11/09/16 (16-029)
2601	Reactive Inspection Decision Making Process for Fuel Facilities 09/20/16 (16-023)
2602	Decommissioning Oversight and Inspection Program for Fuel Cycle Facilities and Materials Licensees 07/29/08 (08-021)
2603	RESERVED for Fuel Cycle Facility Construction Inspection Program Assessment
2604	Licensee Performance Review 09/20/16 (16-023)
2606	Assessment of the Change in Risk Resulting From a Violation at a Fuel Cycle Facility 04/01/16 (16-010)
2606, E-2	Evaluation Based on Specific Licensee ISAs 09/26/12 (12-022)
2620	On-Site Construction Reviews of Remedial Action at Inactive Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation Control Act) 10/05/01 (01-020)
2630	Mixed Oxide Fuel Fabrication Facility Construction Inspection Program 09/20/16 (16-023)
2635	RESERVED for Uranium Enrichment Facility Construction and Pre-Operational Readiness Review Inspection Programs
2641	In-Situ Leach Facilities Inspection Program 08/25/00 (00-014)
2650	Fuel Cycle Inspection Assessment Program 11/08/18 (18-038)
2681	Physical Protection and Transport of SNM and Irradiated Fuel Inspections of Fuel Facilities 10/27/17 (17-023)
2681/009	Inspection Guidance and Requirements for Physical Protection of the Transfer, Loading and Shipment of Irradiated Special Nuclear Material from General Atomics Facility, San Diego, California to U.S. Department of Energy, Idaho National Laboratory, Scoville, Idaho 08/12/10 (10-017)
2682	Technical Assistance for Safeguards MC&A Inspections at Fuel Facilities 06/18/84 (84-18)
2683	MC&A Safeguards Inspection of Fuel Facilities 05/09/14 (14-011)
2690	Inspection Program for Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations and for 10 CFR Part 71 Transportation Packagings 03/09/12 (12-004)
2690/011	Review of Aging Management Programs at Independent Spent Fuel Storage Installations 01/30/18 (18-002)

2694	Fuel Cycle Facility Construction and Pre-operational Readiness Review Inspection Programs 0830/17 (17-017)
2696	Louisiana Energy Services Gas Centrifuge Facility Construction and Pre-Operational Readiness Review Inspection Programs 10/19/06 (06-028)
2700	<u>Licensee Contractor and Vendor Inspection Program</u>
2800	<u>Materials Inspection Program</u>
2800	Materials Inspection Program 09/12/17 (17-018)
2800/030	Verification of the Status of Devices Authorized For Use Under a General License 05/30/00 (00-011)
2800/032	Follow-up - Materials Safeguard Advisory 10/31/01 (01-023)
2800/036	Inspection of Manufacturing and Distribution Licensees 09/13/04 (04-024)
2800/037	Safety Procedures for Panoramic Irradiators Rev 1 07/14/05 (05-019)
2800/040	Material Control and Accounting at Nuclear Power Plants and Wet Storage Sites 03/07/11 (11-002)
2800/041	10 CFR Part 37 Materials Security Review at Facilities with a Title 10 Code of Federal Regulations Part 73 Physical Protection Program 07/01/15 (15-013)
2800/043	Inspection of Facilities Potentially Contaminated with Discrete Radium 226 Sources 12/20/19 (19-041)
2801	Uranium Mill 11e.(2) Byproduct Material Disposal Site and Facility Inspection Program 08/25/00 (00-014)
2810	Master Materials License Oversight and Inspection Program 10/11/12 (12-023)
2815	Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators 03/27/01 (01-010)
2882	Transfer of NRC License Files to Agreement State(s) 12/03/01 (01-029)
2900	<u>Performance Appraisal Program</u>
2901	Team Inspections 08/24/01 (01-016)
2920	Construction Appraisal Team Inspection Program 03/29/85 (85-11)
3000	<u>Management Meetings</u>
30800	Initial Management Meeting - Materials Licensees 10/01/76 (76-26)
3100	<u>Reserved</u>
3200	<u>Reserved</u>
3300	<u>Reserved</u>

3400 Reserved

3500 Quality Assurance

- 35002 Early Site Permit Pre-Docketing Quality Assurance Controls Meeting 05/29/03 (03-018)
- 35004 Pre-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
- 35006 Post-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
- 35007 Quality Assurance Program Implementation During Construction and Pre-Construction Activities 12/08/16 (16-032)
- 35012 Early Site Permit Quality Assurance Controls Assessment and Conclusion 05/29/03 (03-018)
- 35017 Quality Assurance Implementation Inspection 07/29/08 (08-021)
- 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 01/27/10 (10-003)
- 35101 QA Program Implementation Inspection for Operational Programs 07/08/16 (16-015)
- 35701 Quality Assurance Program Review 09/17/01 (01-017)
- 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 Parts 21 and 50.55(e) Programs for Reporting Defects and Noncompliance 05/16/19 (19-015)
- 36100.01 Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance During Construction 11/13/19 (19-035)
- 36302 Part 52. Operational Staffing 08/19/08 (08-024)
- 36801 Organization, Management, and Cost Controls at Permanently Shutdown Reactors 08/11/97 (97-012)

3700 Design, Design Changes, Modifications

- 37060 Inspections under the 10CFR Part 50.69 Special Program 09/14/11 (11-016)
- 37700 Design Changes, and Modifications 09/17/01 (01-017)

37801	Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors 08/11/97 (97-012)
37803	RESERVED
37804	Aircraft Impact Assessment Inspection 02/09/12 (12-001)
37805	Engineering Design Verification Inspections 04/25/11 (11-007)
3800	<u>Procurement</u>
3900	<u>Records</u>
39701	Records Program 09/17/01 (01-017)
4000	<u>Review and Audit</u>
40002	Inspections to Review Allegations 06/28/02 (02-024)
40100	Independent Safety Culture Assessment Follow-up 07/26/18 (18-022)
40505	RESERVED for Effectiveness of Process to Identify, Resolve, and Prevent Construction Problems
40600	Licensee Program for Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Management 07/28/14 (14-017)
40801	Self-Assessment, Auditing, and Corrective Action at Permanently Shutdown Reactors 08/11/97 (97-012)
4100	<u>Training</u>
41500	Training and Qualification Effectiveness 06/13/95 (95-007)
41501	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)
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)
4300	<u>Vendor Procedures</u>
43002	Routine Inspections of Nuclear Vendors 01/27/17 (17-002)
43003	Reactive Inspections of Nuclear Vendors 12/14/15 (15-029)
43004	Inspection of Commercial-Grade Dedication Programs 01/27/17 (17-002)
43005	NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 10/08/15 (15-019)

43006	Inspection of the Implementation of Mitigation Strategies Orders Regarding the Use of National Response Centers 09/30/16 (16-025)
4400	<u>Reserved</u>
4500	<u>Geotechnical/Foundation</u>
45051	Geotechnical/Foundation Activities Procedure Review 05/29/03 (03-018)
45052	Review of Geotechnical and Site Characterization Activities 10/03/07 (07-030)
4600	<u>Structural Concrete</u>
4700	<u>Containment (Post-Tensioning)</u>
4800	<u>Structural Steel and Supports</u>
4900	<u>Piping</u>
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)
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 Qualifications (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 10/31/08 (08-031)
5300	<u>Containment Penetrations</u>
5400	<u>Cleanliness</u>

5500 Welding

- 55050 Nuclear Welding General Inspection Procedure 06/20/83 (83-06)
- 55100 Structural Welding General Inspection Procedure 06/20/83 (83-06)

5600 Calibration

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

5700 Nondestructive Examination, Destructive Examination and Fabrication Testing

- 57050 Visual Testing Examination 03/09/99 (99-003)
- 57060 Liquid Penetrant Testing Examination 03/09/99 (99-003)
- 57070 Magnetic Particle Testing Examination 03/09/99 (99-003)
- 57080 Ultrasonic Testing Examination 03/09/99 (99-003)
- 57090 Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review 06/14/93 (93-005)

5800 Special Processes

5900 Reserve Shutdown System

6000 Fuel Fabrication, Handling and Storage

- 60705 Preparation for Refueling 07/27/95 (95-009)
- 60710 Refueling Activities 07/27/95 (95-009)
- 60715 Spent Fuel Safety at Operating Reactors 10/30/15 (15-022)
- 60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors 01/11/16 (16-001)
- 60845 Operation of Intra-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 01/16/08 (08-003)
- 60853 On-Site Fabrication of Components and Construction of an ISFSI 01/16/08 (08-003)
- 60854 Preoperational Testing of an Independent Spent Fuel Storage Installation 01/16/08 (08-003)
- 60854.1 Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants 05/16/19 (19-015)
- 60855 Operation of an Independent Spent Fuel Storage Installation 01/16/08 (08-003)
- 60855.1 Operation of an Independent Spent Fuel Storage Installation at Operating Plants 05/16/19 (19-015)

60856	Review of 10 CFR 72.212(b) Evaluations 03/05/08 (08-010)
60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants 05/16/19 (19-015)
60857	Review of 10 CFR 72.48 Evaluations 10/24/07 (07-033)
60858	Away-From-Reactor ISFSI Inspection Guidance 05/03/07 (07-015)
60859	RESERVED for Welding Verification Checklist for Transportation and ISFSI Components
60860	RESERVED for Nondestructive Examination Procedure Visual Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components
60861	RESERVED for Nondestructive Examination Procedure Liquid Penetrant Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components
60862	RESERVED for Nondestructive Examination Procedure Magnetic Particle Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components
60863	RESERVED for Nondestructive Examination Procedure Ultrasonic Examination Procedure Review/Work Observation/Record Review
60864	RESERVED for Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components

6100 Surveillance

61705	Calibration of Nuclear Instrumentation Systems 05/12/86 (86-25)
61706	Core Thermal Power Evaluation 07/14/86 (86-36)
61707	Determination of Reactor Shutdown Margin 10/11/85 (85-31)
61708	Isothermal and Moderator Temperature Coefficient Determinations 10/11/85 (85-31)
61709	Total Power Coefficient of Reactivity at Pressurized Water Reactors 07/14/86 (86-36)
61710	Control Rod Worth Measurements (PWR) 10/11/85 (85-31)
61715	Verification of Containment Integrity 12/23/86 (86-60)
61720	Containment Local Leak Rate Testing 10/03/85 (85-30)
61726	Surveillance Observations 06/24/98 (98-010)
61728	Independent Measurement of RCS Leak Rates for a PWR 01/01/84 (84-02)

6200 Maintenance

62002	Inspection of Structures, Passive Components, and Civil Engineering Features at Nuclear Power Plants 12/31/96 (96-024)
62003	Inspection of Steel and Concrete Containments at Nuclear Power Plants 06/11/97 (97-008)
62706	Maintenance Rule 12/13/00 (00-028)
62708	Motor-Operated Valve Capability 10/23/13 (13-026)
62709	Configuration Risk Assessment and Risk Management Process 12/28/00 (00-029)

62710	Power-Operated Gate Valve Pressure Locking and Thermal Binding 04/30/10 (10-013)
62711	RESERVED for Operational Reliability Assurance Process
62712	Part 52, Maintenance Rule 08/13/13 (13-017)
62801	Maintenance and Surveillance at Permanently Shutdown Reactors 08/11/97 (97-012)
6300	<u>Construction Testing</u>
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 06/24/98 (98-010)
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 (08-019)
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	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 Hazard Analysis 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 Integrated System Validation ITAAC 12/22/14 (14-031)
65001.23, App A	Inspection Guide for AP1000 Human Factors Engineering Integrated System Validation 12/22/14 (14-031)
65001.A	ITAAC Attributes for As-Built Inspection 09/25/13 (13-023)
65001.B	Inspection of the ITAAC-Related Welding Program 11/04/19 (19-034)
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>
6900	<u>Non-Power Reactor Inspection</u>
69001	Class II Research and Test Reactors 02/03/04 (04-004)
69002	Class III Research and Test Reactors 02/03/04 (04-004)
69003	Class I Research and Test Reactor Operator Licenses, Requalification, and Medical Examinations 02/03/04 (04-004)
69004	Class I Research and Test Reactor Effluent and Environmental Monitoring 02/03/04 (04-004)
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)
69007	Class I Research and Test Reactor Review and Audit and Design Change Functions 02/03/04 (04-004)

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)
69013	Research and Test Reactor Decommissioning 02/03/04 (04-004)
69020	Inspections of Safety-Related Items (and Services) During Construction of Non-Power Production and Utilization Facilities 12/14/15 (15-029)
69021	Inspections of Quality Assurance Program Implementation During Construction of Non-Power Production and Utilization Facilities 09/12/17 (17-018)
69022	Inspections of Operational Readiness During Construction of Non-Power Production and Utilization Facilities 10/09/19 (19-033)

7000 Preoperational Testing

70307	Containment Integrated Leak Rate Test - Procedure Review 03/07/86 (86-13)
70313	Containment Integrated Leak Rate Test 11/12/85 (85-36)
70323	Containment Leak Rate Test Results Evaluation 10/03/85 (85-30)
70367	Inspection of Pre-operational Test Program 01/15/14 (14-001)
70368	Part 52 Containment Leak Rate Testing (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	Inspection of Preoperational Test Performance 12/06/17 (17-028)

7100 Operations (License & TS Requirements)

71002	License Renewal Inspection 11/23/11 (11-038)
71003	Post-Approval Site Inspection for License Renewal 07/08/16 (16-015)
71004	Power Uprate 05/15/17 (17-010)
71007	Reactor Vessel Head Replacement Inspection 10/03/17 (17-020)
71111	Reactor Safety-Initiating Events, Mitigating Systems, Barrier Integrity 10/28/11 (11-025)
71111.01	Adverse Weather Protection 12/20/19 (19-041)
71111.04	Equipment Alignment 12/20/18 (18-043)
71111.05	Fire Protection 08/07/19 (19-026)
71111.05T	Fire Protection (Triennial) 01/31/13 (13-004)
71111.05XT	Fire Protection - NFPA 805 (Triennial) 01/31/13 (13-004)
71111.06	Flood Protection Measures 11/25/15 (15-027)
71111.07	Heat Sink Performance 12/08/16 (16-032)
71111.08	In-service Inspection Activities 12/14/18 (18-043)
71111.11	Licensed Operator Requalification Program 12/14/18 (18-043)
71111.12	Maintenance Effectiveness 01/07/20 (20-002)

71111.13	Maintenance Risk Assessments and Emergent Work Control 11/13/19 (19-035)
71111.15	Operability Determinations and Functionality Assessments 12/20/19 (19-041)
71111.17T	Evaluations of Changes, Tests, and Experiments 12/08/16 (16-032)
71111.18	Plant Modifications 11/26/19 (19-038)
71111.19	Post Maintenance Testing 06/07/18 (18-014)
71111.20	Refueling and Other Outage Activities 12/20/18 (18-044)
71111.21M	Design Bases Assurance Inspection (Teams) 12/08/16 (16-032)
71111.21N	Design Bases Assurance Inspection (Programs) 02/05/19 (19-005)
71111.21N.02	Design Basis Capability of power Operated Valves Under 10 CFR 50.55a Requirements 07/26/19 (19-024)
71111.21N.05	Fire Protection Team Inspection (FPTI) 06/12/19 (19-019)
71111.22	Surveillance Testing 12/20/19 (19-041)
71113	RESERVED for Review of License Renewal Commitments for Plants in Timely Renewal
71114	Reactor Safety-Emergency Preparedness 05/29/12 (12-008)
71114.01	Exercise Evaluation 07/21/16 (16-017)
71114.02	Alert and Notification System Evaluation 07/21/16 (16-017)
71114.03	Emergency Response Organization Staffing and Augmentation System 07/21/16 (16-017)
71114.04	Emergency Action Level and Emergency Plan Changes 07/21/16 (16-017)
71114.05	Maintenance of Emergency Preparedness 07/21/16 (16-017))
71114.06	Drill Evaluation 07/21/16 (16-017)
71114.07	Exercise Evaluation-Hostile Action (HA) Event 07/21/16 (16-017)
71114.08	Exercise Evaluation-Scenario Review 07/21/16 (16-017)
71124	Radiation Safety - Public and Occupational 12/21/17 (17-031)
71124.01	Radiological Hazard Assessment and Exposure Controls 12/23/19 (19-042)
71124.02	Occupational ALARA Planning and Controls 12/23/19 (19-042)
71124.03	In-Plant Airborne Radioactivity Control and Mitigation 12/23/19 (19-042)
71124.04	Occupational Dose Assessment 12/23/19 (19-042)
71124.05	Radiation Monitoring Instrumentation 04/01/16 (17-031)
71124.06	Radioactive Gaseous and Liquid Effluent Treatment 12/21/17 (17-031)
71124.07	Public Radiation Safety 12/21/17 (17-031)
71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation 12/21/17 (17-031)
71130	Security 08/23/18 (18-028)
71130.01	Access Authorization 09/30/16 (16-024)
71130.02	Access Control 09/30/16 (16-024)
71130.03	Contingency Response - Force-On-Force Testing 12/22/16 (16-035)
71130.04	Equipment Performance, Testing and Maintenance 09/30/16 (16-024)
71130.05	Protective Strategy Evaluation and Performance Evaluation Program 12/10/18 (18-042)
71130.06	Protection of Safeguards Information 09/30/16 (16-024)
71130.07	Security Training 09/30/16 (16-024)
71130.08	Fitness for Duty Program 10/22/18 (18-035)
71130.10P	Cyber Security 05/15/17 (17-010)
71130.11	Material Control & Accounting (MC&A) 12/10/08 (08-035)
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 09/12/17 (17-018)
71150	Discrepant or Unreported Performance Indicator Data 04/30/19 (19-013)
71151	Performance Indicator Verification 05/03/17 (17-009)
71152	Problem Identification and Resolution 02/26/15 (15-003)
71153	Follow-up of Events and Notices of Enforcement Discretion 11/13/19 (19-035)
71303	Part 52, Technical Specifications Review 10/20/08 (08-029)
71714	Cold Weather Preparations 09/17/01 (01-017)
71715	Sustained Control Room and Plant Observation 04/14/92 (92-004)
71801	Decommissioning Performance and Status Review at Permanently Shutdown Reactors 08/11/97 (97-012)
71841	Human Performance 12/12/00 (00-027)

7200 Startup Testing

72303	Startup Testing for ABWR: Test Procedure Review, Test Witnessing, and Test Results Evaluation 09/05/06 (06-021)
72304	AP1000 Startup Test Inspections 02/28/19 (19-009)
72401	Part 52, Inspection of Startup Test Program 09/26/19 (19-031)
72501	RESERVED for Part 52 Initial Fuel Load Procedure Review
72525	RESERVED for Part 52 Initial Fuel Load Witnessing

7300 In-service Inspection

73052	In-service Inspection - Review of Procedures 01/14/86 (86-03)
73054	Part 52, Pre-service and In-service Inspection - Review of Program 05/03/17 (17-009)
73753	In-service Inspection 06/24/98 (98-010)
73754	Part 52 - Preservice Inspection - Non-Destructive Examination 09/23/19 (19-029)
73755	In-service Inspection - Data Review and Evaluation 10/27/10 (10-022)
73756	In-service Testing of Pumps and Valves 07/27/95 (95-009)
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 09/06/18 (18-030)

7400 Reserved

7500 Reserved

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
(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)

8000 Environmental Protection

80211 RESERVED for Part 52 Environmental Protection - Initial & Periodic
Inspection

80522 Part 52, Radiological Environmental Monitoring Program (REMP)
07/01/08 (08-019)

80600 RESERVED for Independent Assessment of Site Radiological Conditions

80721 Radiological Environmental Monitoring 09/17/01(01-017)

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 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
Audits 09/07/12 (12-020)

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

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

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

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 08/27/14 (14-019)

81200.01 Access Authorization for Decommissioning Nuclear Power Reactors
10/21/14 (14-025)

81200.02 Access Control for Decommissioning Nuclear Power Reactors

	08/27/14 (14-019)
81200.03	RESERVED for Decommissioning Force-on-Force Testing
81200.04	Equipment Performance, Testing, and Maintenance for Decommissioning Nuclear Power Reactors 08/27/14 (14-019)
81200.05	Protective Strategy Evaluation and Performance Evaluation Program for Decommissioning Nuclear Power Reactors 10/21/14 (14-025)
81200.06	Protection of Safeguards Information for Decommissioning Nuclear Power Reactors 08/27/14 (14-019)
81200.07	Security Training for Decommissioning Nuclear Power Reactor 10/21/14 (14-025)
81200.08	RESERVED for Decommissioning Fitness for Duty Program
81200.10	RESERVED for Decommissioning Cyber Security
81200.11	RESERVED for Decommissioning Material Control and Accounting
81200.14	Review of Decommissioning Target Sets 01/15/14 (14-001)
81310	Physical Protection of Shipments of Irradiated Fuel 12/22/08 (08-037)
81311	Physical Security Requirements for Independent Spent Fuel Storage Installations 02/08/19 (19-006)
81335	Physical Protection of Shipments of Special Nuclear Material of Moderate Strategic Significance (SNM-MSS) 12/02/09 (09-029)
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 Materials in Transit 12/22/08 (08-037)
81402	Reports of Safeguards Events 11/23/09 (09-028)
81411	Physical Protection for Reactors with Formula Quantities of Special Nuclear Material 11/04/85 (85-34)
81421	Fixed Site Physical Protection of Special Nuclear Material of Moderate Strategic Significance 11/23/09 (09-028)
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)
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)
81700.06	Licensee Conducted Force-on-Force Exercises at Category I Fuel Cycle Facilities 10/27/17 (17-023)
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)
81700.09	Security Measures for Licensed Facilities 10/26/15 (15-021)
81700.10	Protection of Safeguards Information at Category I Fuel Cycle Facilities 05/15/17 (17-010)
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 09/06/16 (16-022)
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 (NSI) and Restricted Data (RD) 06/27/14 (14-014)

8200 Emergency Planning

82001	Evaluation of Emergency Preparedness 05/22/00 (00-010)
82002	Part 52, Emergency Preparedness Program 14/28/14 (14-026)
82002.01	Facilities and Equipment 11/08/11 (11-030)
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)
82002.08	Inspection of Site Specific Implementation of 10 CFR 50.54(hh)(2) Mitigating Strategies for Nuclear Power Plants Referencing the AP1000 Certified Design 09/17/18 (18-031)
82201	Emergency Detection and Classification 03/23/05 (05-008)
82202	Protective Action Decision Making 03/23/05 (05-008)
82301	Evaluation of Exercises for Power Plants 04/24/13 (13-012)
82302	Review of Exercise Objectives and Scenarios for Power Reactors 04/24/13 (13-012)
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)

8300 Radiation Protection

83100	Occupational Exposure During SAFSTOR and DECON
-------	--

	12/30/91 (91-022)
83311	RESERVED for Part 52, Radiation Protection During Construction
83501	Significant Uncontrolled Radiation Exposures 04/17/00 (00-006)
83502.01	Radioactive Gaseous and Liquid Treatment and Monitoring Systems 04/17/00 (00-006)
83502.02	Radioactive Material Process and Transportation 04/17/00 (00-006)
83502.03	Radiological Environmental Monitoring Program and Radioactive Material Control Program 04/17/00 (00-006)
83523	Radiation Protection, Plant Chemistry, Radwaste, Transportation and Environmental: Training and Qualifications 01/01/84 (reactivated 08-032)
83527	Facilities and Equipment (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)
83529	RESERVED for Part 52 Radiation Protection – Startup
83531	Part 52 Life Cycle Minimization of Contamination and Groundwater Protection Program 12/21/16 (16-035)
83532	RESERVED for Part 52 Radiation Protection, Plant Chemistry, and Radwaste Training
83533	Part 52 External Occupational Exposure Control and Personal Dosimetry 10/27/10 (10-022)
83534	Part 52, Internal Exposure Control and Assessment 10/27/10 (10-022)
83535	Part 52, Control of Radioactive Materials and Contamination, Surveys, and Monitoring 10/27/10 (10-022)
83536	Part 52 Facilities and Equipment 10/27/10 (10-022)
83537	Part 52 Maintaining Occupational Exposures ALARA 10/27/10 (10-022)
83722	Radiation Protection, Plant Chemistry, and Radwaste: Organization and Management Controls (Minimum/Basic) 09/17/01 (01-017)
83723	General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03 (03-041)
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)
83729	Occupational Exposure during Extended Outages 12/31/91 (91-021)
83746	Part 52 Offsite Dose Calculation Manual (ODCM) 07/29/08 (08-021)
83750	Occupational Radiation Exposure 11/14/19 (19-036)
83801	Inspection of Remedial and Final Surveys at Permanently Shutdown Reactors 11/26/19 (19-038)
83822	Radiation Protection 09/07/00 (00-016)
83890	Closeout Inspection and Survey 05/01/03 (03-013)

8400 Radioactive Waste Management

84100	Special Nuclear Material Inspections At Near Surface Low-Level Waste Disposal Facilities In Agreement States 11/27/01 (01-028)
84101	Radioactive Waste Management 12/30/91 (91-022)
84522	Solid Wastes (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)

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 System 07/01/08 (08-019)
84528	Part 52 Liquid Waste Management Program 10/19/16 (16-027)
84529	Part 52, Gaseous Waste Management Program 10/19/16 (16-027)
84750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring 11/14/19 (19-036)
84850	Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR 20 and 10 CFR 61 12/22/08 (08-037)
84900	Low-Level Radioactive Waste Storage 12/22/08 (08-037) (Preoperational and Supplemental)

8500 Material Control and Accountability

85102	Material Control and Accounting - Reactors 03/29/85 (85-10)
85103	Material Control and Accounting at Decommissioning 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 08/10/16 (16-020)
85205	Facility Operations and Internal Controls 08/10/16 (16-020)
85207	Measurement Systems 01/17/86 (86-04)
85209	Measurement Control and Statistics 04/10/85 (85-15)
85211	Physical Inventory 01/17/86 (86-04)
85303	Material Control and Accounting Management Structure and Personnel Training and Qualification 08/10/16 (16-020)
85305	Item Monitoring 11/15/16 (16-030)
85307	Process Monitoring 11/15/16 (16-030)
85309	Measurement Systems and Control 10/20/10 (10-021)
85311	Physical Inventory Program 11/15/10 (10-023)
85313	Alarm Resolution Program 11/15/16 (16-030)
85315	Internal Control 12/21/2010 (10-027)
85401	Management Structure 11/15/16 (16-030)
85402	Measurement Program 10/20/10 (10-021)
85403	Measurement Control Program 10/20/10 (10-021)
85404	Physical Inventory Program for Low Enriched Uranium Fuel Facilities 11/15/10 (10-023)
85405	Item Control 09/09/10 (10-019)
85406	Resolution Program for Low Enriched Uranium Fuel Facilities 11/15/10 (10-023)
85407	Assessment Program 11/29/10 (10-024)
85408	Recordkeeping 11/29/10 (10-024)
85420	Inspection of IAEA Safeguards for Inspectors at Power Reactors 06/22/88 (88-007)
85501	Physical Inventory Program for Uranium Enrichment Facilities 11/15/10 (10-023)
85502	Detection Program for Uranium Enrichment Facilities 12/21/10 (10-027)

85503 Resolution Program for Uranium Enrichment Facilities
11/15/10 (10-023)

8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

86001 Design, Fabrication, Testing, and Maintenance of
Transportation Packagings 01/16/08 (08-003)
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 10/30/08 (08-030)
86750 Solid Radioactive Waste Management and Transportation of Radioactive
Materials 03/15/94 (94-006)

8700 Materials Safety Inspection

87102 Maintaining Effluents from Materials Facilities As Low As Is Reasonably
Achievable (ALRA) 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
10/09/19 (19-033)
87121 Industrial Radiography Programs 12/17/14 (14-030)
87122 Irradiator Programs 12/31/02 (02-047)
87123 Well Logging Programs 07/02/19 (19-021)
87124 Fixed and Portable Gauge Programs 11/25/03 (03-037)
87125 Materials Processor/Manufacturer Programs 09/28/05 (05-027)
87126 Industrial/Academic/Research Programs 09/28/05 (05-027)
87127 Radiopharmacy Programs 07/01/08 (08-018)
87128 Manufacturing and Distribution of Exempt Products 08/07/19 (19-026)
87129 Master Materials Program 09/15/03 (03-034)
87130 Nuclear Medicine Programs, Written Directive Not Required
10/24/02 (02-041)
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 04/03/14 (14-009)
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
87250 Locating Missing Materials Licensees 10/29/01 (01-022)
87654 Uranium Mill, In-Situ Uranium Recovery, and 11e.(2) Byproduct
Material Site Decommissioning Inspection 03/19/02 (02-010)

8800 Fuel Facility Inspection

88001	On-Site Construction 04/15/94 (94-011)
88003	Reactive Inspection for Events at Fuel Cycle Facilities 03/16/15 (15-004)
88004	RESERVED for Adverse Weather Protection
88005	Management Organization and Controls 09/05/06 (06-020)
88010	Training 02/07/14 (14-005)
88015	Nuclear Criticality Safety 08/11/15 (15-0215)
88020	Operational Safety 10/01/18(18-033)
88025	Maintenance and Surveillance Testing 01/23/14 (14-003)
88030	Radiation Protection 03/06/14 (14-007)
88035	Radioactive Waste Management 02/07/14 (14-005)
88045	Effluent Control and Environmental Protection 02/07/14 (14-005)
88050	Emergency Preparedness 03/06/14 (14-007)
88051	Evaluation of Exercises and Drills 03/06/14 (14-007)
88054	Fire Protection (Triennial) 03/06/14 (14-007)
88055	Fire Protection (Annual) 10/01/18 (18-033)
88070	Plant Modification 08/21/18 (18-027)
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 10/09/19 (19-033)
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 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	Quality Assurance: Piping Relied on for Safety 05/18/05 (05-013)
88135	Resident Inspection Program for Category I Fuel Cycle Facilities 02/07/14 (14-005)
88135.02	Resident Inspection Program Plant Status Activities 05/21/15 (15-010)
88135.04	Resident Inspection Program Integrated Safety Analysis Implementation 10/01/18 (18-033)
88135.05	Resident Inspection Program Fire Protection (Annual/Quarterly) 10/01/18 (18-033)
88135.17	Permanent Plant Modifications 01/31/14 (14-004)
88135.19	Post Maintenance Testing 01/31/14 (14-004)
88135.22	Surveillance Testing 01/31/14 (14-004)
88136	Mechanical Components 7/25/07 (07-023)
88137	Electric 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 Controls 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 CFR70.72)
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)

8900 Fuel Facility and Materials Special Program

89001	In-Situ Leach (ISL) Facilities 09/02/97 (97-013)
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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 Multiple/Repetitive Degraded Cornerstone Column Inspection 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)
90712	In-office Review of Written Reports of Non-routine Events at Power Reactor Facilities 12/31/98 (98-020)
90713	In Office Review of Periodic and Special Reports 09/17/01 (01-017)
90714	Non-routine Reporting Program 09/17/01 (01-017)

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 Non-routine Events at Power Reactor Facilities 12/31/98 (98-020)
92701	Follow-up 03/13/07 (07-010)
92702	Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders 01/10/08 (08-001)
92703	Follow-up of Confirmatory Action Letters 05/13/09 (09-012)
92709	Licensee Strike Contingency Plans 05/16/19 (19-015)
92711	Continued Implementation of Strike Plans During an Extended Strike 05/16/19 (19-015)
92712	Resumption of Normal Operations after a Strike 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 08/11/09 (09-020)
92723	Follow up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period 08/11/09 (09-020)
92901	Follow-up - Plant Operations 09/17/01 (01-017)
92902	Follow-up - Maintenance 09/17/01 (01-017)
92903	Follow-up - Engineering 09/17/01 (01-017)
92904	Follow-up - Plant Support 09/17/01 (01-017)

9300 Non-Routine Activities

93002	Managing Fatigue 09/17/19 (19-027)
93100	Safety-Conscious Work Environment Issue of Concern Follow-up 07/26/18 (18-022)

93702	Prompt Onsite Response to Events at Operating Power Reactors 09/17/01 (01-017)
93800	Augmented Inspection Team 04/02/19 (19-012)
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 04/02/19 (19-012)
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	<u>Strategic Determination Actions</u>
95001	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area 08/24/16 (16-021)
95002	Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area 02/09/11 (11-001)
95003	Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs or One Red Input 12/18/15 (15-031)
95003.01	Emergency Preparedness 01/15/09 (09-002)
95003.02	Guidance for Conducting an Independent NRC Safety Culture Assessment) 04/01/19 (19-011)
9600	<u>Materials Safety and Security</u>
96001	NRC Force-on-Force Inspections at Category 1 Fuel Cycle Facilities 03/11/19 (19-010)
9700	<u>Reserved</u>
9800	<u>Reserved</u>

9900 Guidance²

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

PART **GUIDANCE**

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	American Society of Mechanical Engineers ASME Boiler and & XI 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)
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)

Maintenance

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]

Mechanical

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

Freeze Plugs 06/14/93 (93-005)
 Steam Generator Plugs and Sleeving Repairs 08/01/94 (94-014)
 Steam Generator Tube-to-Secondary Leakage 09/09/03 (03-033)
 [TG_Mech SGTUBELKG.wpd]
 Ice Condenser System Inspections 06/06/05 (05-015)

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)
50.59	10 CFR 50.59, Changes, Tests, and Experiments 03/13/01 (01-008) [50_59.CFR]
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

END