

NRC INSPECTION MANUAL

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TABLE OF CONTENTS

Table of Contents Current through Change Notice 24-019 issued 07/03/2024

PART

CHAPTER

0000 NRC Inspection Manual¹

0040 Preparation, Revision, Issuance, and Ongoing Oversight of NRC
Inspection Manual Documents 01/17/23 (23-001)

0040, App A Word Processing Format Directions and Guidance for Inspection Manual
Documents 01/17/23 (23-001)

0100 Program Responsibilities

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

0111 Region I Monitoring Activities for the Department of Energy West Valley
Demonstration Project 09/09/20 (20-041)

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 05/04/23 (23-012)

0306 Planning, Scheduling, Tracking, and Reporting of the Reactor Oversight
Process (ROP) 05/10/24 (24-014)

0307 Reactor Oversight Process Self-Assessment Program
05/03/22 (22-009)

0307, App A Reactor Oversight Process Self-Assessment Metrics and Data Trending
06/14/23 (23-016)

0307, App B Reactor Oversight Process Self-Assessment Baseline Inspection
Program Monitoring and Comprehensive Review 08/08/22 (22-016)

0307, App C Reactor Oversight Process (ROP) Self-Assessment ROP Implementation
Audit 03/24/23 (23-009)

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. An "R" after the change notice number indicates that the document is designated Reference Only.

0307, App D	Resident Inspector Retention and Recruitment Program Monitoring and Assessment 01/09/24 (24-002)
0308	Reactor Oversight Process Basis Document 10/04/22 (22-020)
0308, Att 1	Technical Basis for Performance Indicators 10/16/20 (20-051)
0308, Att 2	Technical Basis for Inspection Program 10/31/23 (23-032)
0308, Att 3	Technical Basis for Significance Determination Process 11/05/21 (21-037)
0308, Att 3, App A	Technical Basis for the At-Power Significance Determination Process 11/30/20 (20-066)
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 09/24/21 (21-032)
0308, Att 3, App E	Technical Basis for the Baseline Security Significance Determination Process 01/31/22 (22-002)
0308, Att 3, App F	Technical Basis Fire Protection Significance Determination Process (Supplemental Guidance for Implementing 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 01/11/22 (22-001)
0308, Att 3, App H	Containment Integrity Significance Determination Process Technical Basis 10/27/20 (20-056)
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 02/02/24 (24-004)
0308, Att 3, App K	Technical Basis for Maintenance Risk Assessment and Risk Management Significance Determination Process 10/16/20 (20-051)
0308 Att 3 App L	Technical Basis for Extensive Damage Mitigation Guidelines Significance Determination Process 12/07/21 (21-039)
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 09/08/23 (23-027)
0308, Att 5	Technical Basis for Enforcement 11/04/20 (20-057)
0308, Att 6	Basis Document for Security Cornerstone of the Reactor Oversight Process 11/09/20 (20-061)
0309	Reactive Inspection Decision Basis for Reactors 12/14/23 (23-036)
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 09/30/19 (19-032)
0327	Steam Generator Tube Primary-to-Secondary Leakage 07/14/23 (23-020)
0330	Guidance for NRC Review of Licensee Draft Documents 07/08/96 (96-015)
0335	Changes, Tests, and Experiments 01/29/21 (21-007)
0350	Oversight of Reactor Facilities in a Shutdown Condition Due to Significant Performance and/or Operational Concerns 10/16/23 (23-030)
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 08/12/20 (20-038)
0375, Att 1	RESERVED for Generic Reactivation
0400	<u>Enforcement Policy</u>
0500	<u>Tracking Systems</u>
0600	<u>Documentation of Program Findings</u>
0608	Performance Indicator Program 02/05/19 (19-005)
0609	Significance Determination Process 11/09/20 (20-061)
0609 Att 1	Significance and Enforcement Review Panel (SERP) Process 08/19/21 (21-028)
0609 Att 2	Process for Appealing NRC Characterization of Inspection Findings (SDP Appeal Process) 01/25/21 (21-006)
0609 Att 3	Senior Reactor Analyst and Risk Analyst Support Expectations 10/09/20 (20-050)
0609 Att 4	Initial Characterization of Findings 12/13/19 (19-040)
0609 Att 5	Inspection Finding Review Board 12/15/23 (23-037)
0609, App A	The Significance Determination Process for Findings At-Power 11/30/20 (20-066)
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 09/24/21 (21-032)
0609, App E	Security Significance Determination Process for Power Reactors 04/02/21 (21-018)
0609, App E	Part I Baseline Security Significance Determination Process for Power Reactors 11/08/22 (22-025)
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 for New Reactors 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 Significance Determination Process 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 01/08/20 (01-004)
0609, App G, Att 1	Shutdown Operations Significance Determination Process Phase 1 Initial Screening and Characterization of Findings 05/20/22 (22-010)
0609, App G, Att 2	Phase 2 Significance Determination Process Template for PWR During Shutdown 01/08/20 (20-004)
0609, App G, Att 3	Phase 2 Significance Determination Process Template for BWR During Shutdown 01/08/20 (20-004)
0609, App H	Containment Integrity Significance Determination Process 03/23/20 (20-017)
0609, App I	Licensed Operator Requalification Significance Determination Process 01/10/19 (19-001)
0609, App J	Steam Generator Tube Integrity Findings Significance Determination Process 10/16/20 (20-051)
0609, App K	Maintenance Risk Assessment and Risk Management Significance Determination Process 10/16/20 (20-051)
0609, App L	Extensive Damage Mitigation Guidelines Significance Determination Process 12/07/21 (21-039)
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)
0610 App G	Screening and Documentation of Very Low Safety Significance Issue Resolution Process 04/23/24 (24-013)
0611	Power Reactor Inspection Reports 01/07/20 (20-003)
0611.02	Guidance for Reactive Inspection Reports 06/07/22 (22-012)
0611, Exh 1	Standard Reactor Inspection Report Outline 12/29/22 (22-029)
0611, Exh 2	Inspection Report Documentation Matrix 12/29/22 (22-029)
0611, Exh 4	Inspection Report Cover Letter Templates 10/09/19 (19-033)
0611, App A	Acronyms Used in Inspection Reports 12/29/22 (22-029)
0611, App C	Documenting Supplemental Inspections 10/21/20 (20-054)
0611, App D	Guidance for Problem Identification and Resolution Inspection Reports 10/31/23 (23-032)
0612	Issue Screening 08/09/23 (23-022)
0612, App B	Issue Screening Directions 08/09/23 (23-022)
0612, App E	Examples of Minor Issues 10/26/23 (23-031)
0612, App G	Emergency Planning Cornerstone- Specific Supplemental Guidance for Appendix B Screening Figures 1 and 2, 02/24/21 (21-010)
0613	Power Reactor Construction Inspection Reports 11/04/20 (20-057)
0615	Research and Test Reactor Inspection Reports 06/23/04 (04-018)
0616	Fuel Cycle Safety and Safeguards Inspection Reports 10/04/22 (22-020)
0616, App B	Examples of Minor Violations 10/04/22 (22-020)
0617	Vendor and Quality Assurance Implementation Inspection Reports 07/03/24 (24-019)

0618	RESERVED for Advanced Power Reactor Construction Inspection Reports
0620	Inspection Documents and Records 07/09/21 (21-023)
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. 03/29/23 (23-010)
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. 09/01/22 (22-018)
1100	<u>Notifications of Meetings and Conferences</u>
1120	Preliminary Notifications. 01/05/21 (21-001)
1200	<u>Inspector Requirements</u>
1201	Conduct of Employees 07/29/16 (16-019)
1202	Senior Resident and Resident Inspector Site Turnover 06/28/18 (18-017)
1203	RESERVED Resident Inspector Retention Incentive Program
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 Commercial Nuclear Power Plants, Selected Fuel Cycle Facilities, Independent Spent Fuel Storage Installations, or Non-Power Production and Utilization Facilities 10/16/23 (23-030)
1245	Qualification Program for Reactor Inspectors 05/30/24 (24-017)
1245 App A	Basic-Level Training and Qualification Journal 05/30/24 (24-017)
1245 App B	General Proficiency-Level Training and Qualification Journal 05/18/23 (23-014)
1245 App C1	Reactor Operations Inspector Technical Proficiency Training and Qualification Journal 06/14/23 (23-016)
1245 App C2	Reactor Engineering Inspector Technical Proficiency Training and Qualification Journal 06/16/22 (22-013)
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 Training and Qualification Journal 12/16/22 (22-027)
1245 App C5	Research and Test Reactor Inspector Technical Proficiency Training and Qualification Journal 06/26/20 (20-026)
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 04/11/23 (23-011)
1245 App C8	Vendor Inspector Technical Proficiency Training and Qualification Journal 03/27/20 (20-018)
1245 App C9	Senior Reactor Analyst Training and Qualification Program 06/14/23 (23-016)
1245 App C10	Operator Licensing (OL) Examiner Technical Proficiency Training and Qualification Journal 08/28/23 (23-026)
1245 App C11	Security Risk Analyst Technical Proficiency Training and Qualification Journal 09/08/23 (23-027)
1245 App C12	Safety Culture Assessor Training and Qualification Journal 01/13/20 (20-005)
1245 App C13	Independent Spent Fuel Storage Installation Security Inspector Technical Proficiency Training and Qualification Journal 08/08/13 (13-016)
1245 App C14	Cybersecurity Inspector Technical Proficiency Training and Qualification Journal 10/13/22 (22-022)
1245 App C15	Construction Inspector Technical Proficiency Training and Qualification Journal 04/22/21 (21-019)
1245 App C16	Research and Test Reactor Operator Licensing Examiner Technical Proficiency Training and Qualification Journal 09/09/21 (21-030)
1245 App C17	RESERVED for Advanced Reactor Construction Oversight Program
1245 App D1	Maintaining Qualifications 11/06/23 (23-033)
1245 App D2	Inservice Inspection Advanced-Level Training 04/11/23 (23-011)
1245 App D3	Fire Protection Advanced-Level Training 04/11/23 (23-011)
1245 App D4	Electrical Advanced Level Training and Qualification Journal 11/04/20 (20-057)
1245 Att 1	General Overview of the Inspector Training and Qualification Program 05/15/23 (23-013)
1245 Att 2	Inspector Competencies 01/23/23 (23-002)
1246	Formal Qualification Programs in the Nuclear Material Safety and Safeguards Program Area 10/26/11 (11-022)
1246 App A	Training Activities for Staff in the Nuclear Material Safety and Safeguards Program Area 10/26/11 (11-022)
1246 App B1	Training Requirements and Qualification Journal for Spent Fuel Storage and Transportation Project Manager and Technical Reviewer 10/26/11 (11-022)
1246 App B2	Training Requirements and Qualification Journal for Storage and Transportation Inspector 10/02/23 (23-029)
1246 App B3	Training Requirements and Qualification Journal for Independent Spent Fuel Storage Installation Inspector 12/15/23 (23-037)
1246 App B4	Independent Spent Fuel Storage Installation Security Inspector Training and Qualification Journal 08/08/13 (13-016)
1246 App C1	Training Requirements and Qualification Journal for Fuel Cycle Technical 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 07/01/24 (24-018)
- 1247, App B General Proficiency-Level Training and Qualification Journal 07/01/24 (24-018)
- 1247, App C1 Fuel Facility Operations Inspector Technical Proficiency Training and Qualification Journal 07/01/24 (24-018)
- 1247, App C2 Fuel Facility Health Physics Inspector Technical Proficiency Training and Qualification Journal 07/01/24 (24-018)
- 1247, App C3 Fuel Facility Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 11/07/22 (22-024)
- 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 Qualification Programs for Federal and State Materials and Environmental Management Programs 04/19/13 (13-011)
- 1248, App A Materials Health Physics License Reviewer 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 Reviewers 04/19/13 (13-011)
- 1248, App D Training Requirements and Qualification Journal for Byproduct Material Sealed Source Device Reviewers 04/19/13 (13-011)
- 1248, App E Training Requirements and Qualification Journal for Division of Waste Management Inspector and License Reviewers 04/19/13 (13-011)
- 1248, App F Training Requirements and Qualification Journal for Decommissioning Inspectors 03/03/22 (22-005)
- 1248, App G Training Requirements and Qualification Journal for Decommissioning Project Managers/Technical Reviewers 01/13/16 (16-002)

- 1248, App H Training Requirements and Qualification Journal for Uranium Recovery Inspectors 04/19/13 (13-011)
- 1248, App I Training Requirements and Qualification Journal for Uranium Recovery Project Managers/Technical Reviewers 07/02/19 (19-021)
- 1248 App J RESERVED

1300 Incident Response

- 1301 Response to Radioactive Material Incidents that Do Not Require Activation of the NRC Incident Response Plan 10/20/00 (00-022)
- 1302 Follow-Up Actions and Action Levels for Radiation Exposures Associated with Materials Incidents 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 Program for Environmental Monitoring 06/28/91 (91-009) R

1500 Reserved

1600 Emergency Preparedness

- 1601 Communication and Coordination Protocol for Determining the Status of Offsite Emergency Preparedness 06/29/18 (18-018)

1700 Reserved

1800 Reserved

1900 Reserved

2000 Reserved

2100 Reserved

2200 Nuclear Security and Incident Response

- 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 Operating Commercial Nuclear Power Reactors 12/06/23 (23-035)
- 2201, App A Security Baseline Inspection Program 04/22/21 (21-019)
- 2201, App B Supplemental Inspection Program 12/06/23 (23-035)
- 2201, App C Generic, Special, and Infrequent Inspections 02/09/22 (22-003)
- 2201, App D Facility Status Reviews for Security and Safeguards Inspection Program 12/06/23 (23-035)
- 2201/003 RESERVED for Fitness for Duty Part 26 Subpart K
- 2201/006 RESERVED for COVID-19 Public Health Emergency (PHE)
- 2202 Security Inspection Program for Decommissioning Nuclear Power Reactors 07/28/20 (20-035)
- 2202, App A Security Core Inspection Program 07/28/20 (20-035)
- 2202, App B Security Discretionary Inspection Program 07/28/20 (20-035)

2300 High Level Waste

- 2300 Yucca Mountain Inspection Program: License Application Review Period 09/11/08 (08-026)

2400 Low Level Waste Program

- 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) 07/02/20 (20-029)
- 2502 Construction Inspection Program: Pre-Combined License (Pre-COL) Phase 07/02/20 (20-029)

2503	Construction Inspection Program: Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Related Work 10/06/20 (20-048)
2504	Construction Inspection Program: Inspections of Construction and Operational Programs 12/15/20 (20-72)
2505	Periodic Assessment of Construction Inspection Program Results 02/18/22 (22-004)
2506	Construction Reactor Oversight Process General Guidance and Basis Document 11/25/20 (20-065)
2507	Vendor Inspections 05/18/23 (23-014)
2508	Construction Inspection Program: Design Certification 05/03/22 (22-009)
2514	AP1000 Reactor Inspection Program – Startup Testing Phase 01/12/21 (21-003)
2515	Light-Water Reactor Inspection Program—Operations Phase 04/22/24 (24-012)
2515, App A	Risk-Informed Baseline Inspection Program 07/26/19 (19-024)
2515, App B	Supplemental Inspection Program 09/28/22 (22-019)
2515, App C	Special and Infrequently Performed Inspections 06/26/23 (23-018)
2515, App D	Plant Status 11/07/22 (22-024)
2515, App E	Inspection Program Modifications During Public Health Emergencies or Other Conditions Restricting Inspector Onsite Presence 01/02/24 (24-001)
2515, App G	Baseline Inspection Guidance for Power Reactors Preparing for Transition to Decommissioning Phase 02/01/16 (16-004)
2515/194, Rev 1	Inspection of the Licensees’ Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems (NRC Bulletin 2012-01) 08/18/20 (20-039)
2516	Policy and Guidance for the License Renewal Inspection Program 06/26/23 (23-018)
2518	RESERVED for Construction Inspection Program: Advanced Reactors, Pre-Construction Permit (CP)
2519	Construction Significance Determination Process 10/26/20 (20-055)
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 01/15/21 (21-005)
2545	Research and Test Reactor Inspection Program 03/13/20 (20-015)
2550	Non-Power Production and Utilization Facilities (NPUFs) Licensed Under 10 CFR Part 50: Construction Inspection Program (CIP) 05/16/24 (24-015)
2561	Decommissioning Power Reactor Inspection Program 01/06/21 (21-002)
2562	Light-Water Reactor Inspection Program for Restart of Reactor Facilities following Permanent Cessation of Power Operations 04/23/24 (24-013)
2565	Regional Inspection Activities for Naval Reactors Naval Vessels Undergoing Decommissioning 08/28/20 (20-040)
2570	RESERVED for Advanced Reactor Construction Oversight Program
2571	RESERVED for Advanced Reactor Construction Oversight Program
2572	RESERVED for Advanced Reactor Construction Oversight Program
2573	RESERVED for Advanced Reactor Construction Oversight Program

2574 RESERVED for Advanced Reactor Construction Oversight Program
 2575 RESERVED for Advanced Reactor Construction Oversight Program
 2576 RESERVED for Advanced Reactor Construction Oversight Program
 2577 RESERVED for Advanced Reactor Construction Oversight Program
 2578 RESERVED for Advanced Reactor Construction Oversight Program

2600 Fuel Cycle Facility Inspection Program

2600 Fuel Cycle Facility Operational Safety and Safeguards Inspection Program 07/27/23 (23-021)
 2600, App A Guidance for Conducting Fuel Cycle Inspections Fuel Cycle Facility Terminology 07/27/23 (23-021)
 2600, App B NRC Core Inspection Requirements 07/27/23 (23-021)
 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, App E Inspection Program Modifications During Pandemics, Epidemics, or Other Widespread Illnesses or Diseases 12/15/20 (20-072)
 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 Fuel Cycle, Uranium Recovery, and Materials Inspection Program 12/15/22 (22-026)
 2603 RESERVED for Fuel Cycle Facility Construction Inspection Program Assessment
 2604 Licensee Performance Review 01/31/22 (22-002)
 2606 Assessment of the Risk Resulting From a Potential Safety Noncompliance at a Fuel Cycle Facility 04/01/16 (16-010)
 2606, E-2 Evaluations 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
 2650 Fuel Cycle Inspection Assessment Program 11/08/18 (18-038)
 2681 Physical Protection and Transport of Special Nuclear Material and Irradiated Fuel Inspections of Fuel Facilities 10/27/17 (17-023)
 2682 Technical Assistance for Safeguards MC&A Inspections at Fuel Facilities 06/18/84 (84-18)
 2683 Material Control and Accounting Inspection of Fuel Cycle Facilities 02/07/24 (24-005)
 2690 Inspection Program for Storage of Spent Reactor Fuel and Reactor-Related Greater-Than-Class C Waste at Independent Spent Fuel Storage Installations and for 10 CFR Part 71 Transportation Packagings 12/15/20 (20-072)
 2690/011, Rev 1, Review of Aging Management Programs at Independent Spent Fuel Storage Installations 02/20/20 (20-010)

2691	Technical Basis for the Independent Spent Fuel Storage Installation Inspection Program 12/07/20 (20-069)
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 06/16/23 (23-017)
2800/041	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 07/01/15 (15-013)
2800/043 Rev 4	Inspection of Facilities Potentially Contaminated with Discrete Radium 226 Sources 12/22/20 (20-076)
2800/044	Assessment of Physical Protection Requirements Under 10 CFR 150.14 for Agreement State Licensees Possessing, Using, or Transporting Special Nuclear Material of Low Strategic Significance 03/06/23 (23-005)
2801	Uranium Recovery and 11e.(2) Byproduct Material Facility Inspection Program 10/08/21 (21-034)
2810	Master Material License Oversight and Inspection Program 10/29/21 (21-036)
2815	Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators 03/27/01 (01-010)
2900	<u>Performance Appraisal Program</u>
2901	Team Inspections 05/20/22 (22-010)
2920	Construction Appraisal Team Inspection Program 03/29/85 (85-11)

3000 Management Meetings

3100 Reserved

3200 Reserved

3300 Reserved

3400 Reserved

3500 Quality Assurance

- 35007 Quality Assurance Program Implementation During Construction and Pre-Construction Activities 02/09/22 (22-003)
- 35017 Quality Assurance Implementation Inspection 12/10/20 (20-070)
- 35023 RESERVED for Design Reliability Assurance Program
- 35031 RESERVED for Design Certification Pre-Meeting
- 35032 RESERVED for Pre-Docketing Design Certification Quality Assurance Controls Inspection
- 35033 RESERVED for Post-Docketing Design Certification Quality Assurance Controls Inspection
- 35034 Design Certification Testing Inspection 03/23/20 (20-017)
- 35101 QA Program Implementation Inspection for Operational Programs 12/29/21 (21-041)
- 35710 Quality Assurance Inspection of Safety-Related Software Used for Digital Instrumentation and Control in Nuclear Applications 04/18/24 (24-011)
- 35962 RESERVED for Part 52 QA Program Evaluation of Engineering Service Organization

3600 Organization and Administration

- 36100 Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance 02/10/23 (23-003)
- 36100.01 Inspection of 10 CFR 50.55(e) Programs for Reporting Defects and Noncompliance During Construction 03/08/23 (23-007)
- 36302 Part 52. Operational Staffing 08/19/08 (08-024)

3700 Design, Design Changes, Modifications

- 37060 10 CFR 50.69 Risk-Informed Categorization and Treatment of Structures, Systems, and Components Inspection 10/18/22 (22-023)
- 37700 Design Changes and Modifications 09/17/01 (01-017) R
- 37801 Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors 09/09/20 (20-041)
- 37803 RESERVED
- 37804 Aircraft Impact Assessment 03/23/20 (20-017)

37805	Engineering Design Verification Inspections 04/08/20 (20-020)
37806	RESERVED Non-Nuclear Co-Located Facilities
3800	<u>Procurement</u>
3900	<u>Records</u>
4000	<u>Review and Audit</u>
40002	Inspections to Review Allegations 06/28/02 (02-024)
40100	Independent Safety Culture Assessment Followup 07/26/18 (18-022)
40505	RESERVED for Effectiveness of Process to Identify, Resolve, and Prevent Construction Problems
40600	Licensee Program for Managing Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Closure 05/29/20 (20-025)
40801	Problem Identification and Resolution at Permanently Shutdown Reactors 08/11/97 (97-012)
4100	<u>Training</u>
41500	Training and Qualification Effectiveness 06/13/95 (95-007) R
41501	Part 52, Review of Training and Qualification Programs 06/04/19 (19-018)
41502	Nuclear Power Plant Simulation Facilities 10/16/12 (12-024)
4200	<u>Procedures</u>
42001	Emergency Operating Procedures 06/28/91 (91-009) R
42401	Part 52, Plant Procedures 10/27/10 (10-022)
42453	Part 52, Operating Procedures Inspection 08/19/08 (08-024)
42454	Part 52, Emergency Operating Procedures 09/09/13 (13-020)
42700	Plant Procedures 11/15/95 (95-015) R
4300	<u>Vendor Procedures</u>
43002	Routine Inspections of Nuclear Vendors 02/10/23 (23-003)
43003	Reactive Inspections of Nuclear Vendors 04/08/20 (20-020)
43004	Inspection of Commercial-Grade Dedication Programs 02/10/23 (23-003)
43005	NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 06/01/22 (22-011)
43006	Inspection of the Implementation of Mitigation Strategies Order Regulating the Use of National SAFER Response Centers 06/16/22 (22-013)

4400	<u>Reserved</u>	
4500	<u>Geotechnical/Foundation</u>	
	45052	Review of Geotechnical and Site Characterization Activities 04/05/22 (22-006)
4600	<u>Structural Concrete</u>	
4700	<u>Containment (Post-Tensioning)</u>	
4800	<u>Structural Steel and Supports</u>	
4900	<u>Piping</u>	
	49001	Inspection of Erosion-Corrosion / Flow-Accelerated-Corrosion Monitoring Programs 12/11/98 (98-019) R
5000	<u>Mechanical Components and Equipment</u>	
	50001	Steam Generator Replacement Inspection 09/12/17 (17-018)
	50002	Steam Generators 12/31/96 (96-024) R
	50003	Pressurizer Replacement Inspection 09/12/17 (17-018)
	50054	Reactor Vessel Material Surveillance Program 12/04/08 (08-034)
	50056	RESERVED for Reactor Vessel Material Surveillance Program
5100	<u>Electrical Components and Systems</u>	
	51080	Part 52, Environmental Qualification (EQ) Program for Electrical and Mechanical Equipment 06/26/17 (17-013)
5200	<u>Instrumentation Systems and Components</u>	
	52003	Digital Instrumentation and Control Modification Inspection 07/09/21 (21-023)
5300	<u>Containment Penetrations</u>	
5400	<u>Cleanliness</u>	
5500	<u>Welding</u>	
	55050	Nuclear Welding General Inspection Procedure 06/20/83 (83-06) R

55100	Structural Welding General Inspection Procedure 06/20/83 (83-06) R
5600	<u>Calibration</u>
56700	Calibration 03/23/05 (05-008) R
5700	<u>Nondestructive Examination, Destructive Examination and Fabrication Testing</u>
57050	Visual Testing Examination 03/09/99 (99-003) R
57060	Liquid Penetrant Testing Examination 03/09/99 (99-003) R
57070	Magnetic Particle Testing Examination 03/09/99 (99-003) R
57080	Ultrasonic Testing Examination 03/09/99 (99-003) R
57090	Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review 06/14/93 (93-005) R
5800	<u>Special Processes</u>
5900	<u>Reserve Shutdown System</u>
6000	<u>Fuel Fabrication, Handling and Storage</u>
60705	Preparation for Refueling 07/27/95 (95-009) R
60710	Refueling Activities 07/27/95 (95-009) R
60715	Spent Fuel Pool Safety at Operating Reactors 09/16/20 (20-043)
60801	Spent Fuel Pool Maintenance, Surveillance, and Safety at Permanently Shutdown Reactors 09/09/20 (20-041)
60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System 05/16/19 (19-015)
60851	Design Control of ISFSI Components 01/16/08 (08-003)
60852	ISFSI Component Fabrication by Outside Fabricators 08/17/23 (23-024)
60853	On-Site Fabrication of Components and Construction of an Independent Spent Fuel Storage Installation 08/17/23 (23-024)
60854	Preoperational Testing of an Independent Spent Fuel Storage Installation 10/20/20 (20-052)
60855	Operation of an Independent Spent Fuel Storage Installation 11/25/20 (20-065)
60856	Review of 10 CFR 72.212(b) Evaluations 10/20/20 (20-052)
60857	Review of 10 CFR 72.48 Evaluations 10/20/20 (20-052)
60858	Away-From-Reactor Independent Spent Fuel Storage Installation Inspection Guidance 11/12/20 (20-062)
60859	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	<u>Maintenance</u>
62002	Inspection of Structures, Passive Components, and Civil Engineering Features at Nuclear Power Plants 12/31/96 (96-024) R
62003	Inspection of Steel and Concrete Containment Structures at Nuclear Power Plants 06/11/97 (97-008) R
62700	Maintenance Program Implementation 04/04/00 (00-005) R
62706	Maintenance Rule 12/13/00 (00-028) R
62708	Motor-Operated Valve Capability 07/16/20 (20-033)
62709	Configuration Risk Assessment and Risk Management Process 12/28/00 (00-029) R
62710	Power-Operated Gate Valve Pressure Locking and Thermal Binding 04/30/10 (10-013) R
62711	RESERVED for Operational Reliability Assurance Process
62712	Part 52, Maintenance Rule 08/13/13 (13-017) R

6300 Construction Testing

6400 Fire Prevention/Protection

- 64102 RESERVED for Part 52 Post fire Safe Shutdown, Emergency Lighting and Oil Collection Capabilities
- 64704 Fire Protection Program at Permanently Shutdown Reactors 11/05/20 (20-059)
- 64705 Part 52, Fire Protection Operational Program 06/04/19 (19-018)

6500 10 CFR Part 52 ITAAC Inspections

- 65001 Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Related Work 08/13/13 (13-017)
- 65001.01 Inspection of ITAAC-Related Foundations & Buildings 04/18/14 (14-010)
- 65001.02 Inspection of ITAAC-Related Installation of Structural Concrete 11/22/11 (11-037)
- 65001.03 Inspection of ITAAC-Related Installation of Piping 08/19/08 (08-024)
- 65001.04 Inspection of ITAAC-Related Installation of Pipe Supports and Restraints 08/13/14 (14-018)
- 65001.05 Inspection of ITAAC-Related Installation of Reactor Pressure Vessel and Internals 08/19/08 (08/19/08)
- 65001.06 Inspection of ITAAC-Related Installation of Mechanical Components 01/27/15 (15-001)
- 65001.07 Inspection of ITAAC-Related Installation of Valves 07/29/08 (08-021)
- 65001.08 Inspection of ITAAC-Related Installation of Electric Components and Systems 08/19/08 (08-024)
- 65001.09 Inspection of ITAAC-Related Installation of Electric and Fiber Optic Cable 08/05/09 (09-019)
- 65001.10 Inspection of ITAAC-Related Installation of Instrument Components and Systems 10/20/08 (08-029)
- 65001.11 Construction Inspection Program Inspection of ITAAC-Related Containment Integrity and Containment Penetration 08/19/08 (08-024)
- 65001.11A Part 52, Containment Structural Integrity Test 12/20/19 (19-041)
- 65001.12 Inspection of ITAAC-Related Installation of Heating, Ventilating, and Air Conditioning Systems 07/29/08 (08-021)
- 65001.13 Inspection of ITAAC-Related Installation of Load Handling Equipment and Fuel Racks 08/05/09 (09-019)
- 65001.14 Inspection of ITAAC-Related Installation of Complex Systems with Multiple Components 06/24/15 (15-012)
- 65001.15 Inspection of ITAAC-Related Installation of Fire Protection Equipment 07/01/08 (08-019)
- 65001.16 Inspection of ITAAC-Related Engineering 06/20/14 (14-013)
- 65001.17 Inspection of ITAAC-Related Security Structures, Systems, and Components 09/30/16 (16-025)
- 65001.18 Inspection of Emergency Planning ITAAC 10/30/08 (08-030)
- 65001.19 Inspection of Installation of ITAAC-Related Radiation Monitoring Components and Systems 10/20/08 (08-029)
- 65001.20 Inspection of Safety-Related Piping Design Acceptance Criteria (DAC)-Related ITAAC 06/02/11 (11-009)

65001.21	Inspection of Pipe Rupture Hazards Analyses (Inside and Outside Containment) Design Acceptance Criteria (DAC)-Related ITAAC 11/07/11 (11-029)
65001.22	Inspection of Digital Instrumentation and Control (DI&C) System/Software Design Acceptance Criteria (DAC) – Related ITAAC 12/19/11 (11-041)
65001.23	Inspection of Human Factors Engineering Verification and Validation ITAAC 12/22/14 (14-031)
65001.A	Inspection of the As-Built Attributes for Structures, Systems, and Components (SSCs) Associated with ITAAC 09/25/13 (13-023)
65001.B	Inspection of the ITAAC-Related Welding and Nondestructive Examination Programs 11/04/19 (19-034)
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	<u>Preoperational Testing</u>
70307	Containment Integrated Leak Rate Test Procedure Review 03/07/86 (86-13) R
70313	Containment Integrated Leak Rate Test Surveillance 11/12/85 (85-36) R
70323	Containment Leak Rate Test Results Evaluation 10/03/85 (85-30) R
70367	Part 52, Inspection of Preoperational Test Program 10/20/20 (20-052)
70368	Part 52 Containment Leak Rate Testing Program (Programmatic) 06/26/17 (17-013)
70369	RESERVED for Part 52 Containment Leak Rate Testing
70371	RESERVED for Part 52 Testing of Pipe Support and Restraint System
70701	RESERVED
70702	Part 52, Inspection of Preoperational Test Performance 12/06/17 (17-028)
7100	<u>Operations (License & TS Requirements)</u>
71002	License Renewal Inspection 06/26/23 (23-018)
71003	Post-Approval Site Inspection for License Renewal 08/11/23 (23-023)
71004	Power Uprate 02/09/22 (22-003)
71007	Reactor Vessel Head Replacement Inspection 10/03/17 (17-020)
71013	Site Inspection for Plants with a Timely Renewal Application 06/26/23 (23-018)
71111	Reactor Safety-Initiating Events, Mitigating Systems, Barrier Integrity 10/13/22 (22-022)
71111.01	Adverse Weather Protection 08/01/22 (22-015)
71111.04	Equipment Alignment 09/19/23 (23-028)
71111.05	Fire Protection 08/01/22 (22-015)
71111.06	Flood Protection Measures 08/01/22 (22-015)
71111.07	Heat Exchanger/Sink Performance 08/18/23 (23-025)
71111.08	Inservice Inspection Activities 10/16/23 (23-030)
71111.11	Licensed Operator Requalification Program and Licensed Operator Performance 12/19/21 (21-041)
71111.12	Maintenance Effectiveness 03/31/21(21-016)
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)
71111.19	Post-Maintenance Testing 10/06/20 (20-047) R
71111.20	Refueling and Other Outage Activities 04/06/22 (22-007)
71111.21M	Comprehensive Engineering Team Inspection 10/07/22 (22-021)
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.03	Commercial Grade Dedication 02/16/23 (23-004)
71111.21N.04	Age-Related Degradation 12/15/23 (23-037)
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)
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 12/29/21 (21-041)
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 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 03/08/24 (24-009)
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)
71130.07EW	Enhanced Weapons and Preemption of Firearms Laws 01/02/24 (CN 24-001)
71130.08	Fitness-for-Duty Program 01/23/24 (24-003)
71130.10	Cybersecurity 12/14/21 (21-040)
71130.11	Material Control & Accounting (MC&A) 01/07/20 (20-003)
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)
71151	Performance Indicator Verification 04/06/20 (20-019)
71152	Problem Identification and Resolution (PI&R) 10/31/23 (23-032)

71153	Follow up of Events and Notices of Enforcement Discretion 09/16/20 (20-043)
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
7200	<u>Startup Testing</u>
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 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
7300	<u>In-service Inspection</u>
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	<u>Reserved</u>
7500	<u>Reserved for ARCOP</u>
7600	<u>Reserved</u>
7700	<u>Reserved</u>
7800	<u>High Level Waste</u>
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) 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 Audits 09/07/12 (12-020)
- 81000.11 Material Control and Accounting (MC&A) 09/07/12 (12-020)
- 81000.14 Review of New Power Reactor Target Sets 01/29/19 (19-004)
- 81072 Access Control (Power Reactor) - Packages 05/09/84 (84-15) R
- 81120 Inspection Requirements and Guidance for Additional Security Measures for the Physical Protection in Transit for Radioactive Material Quantities of Concern 04/01/10 (10-010) (Note this IP contains safeguards material)
- 81200 Security 07/28/20 (20-035)
- 81200.01 Access Authorization for Decommissioning Nuclear Power Reactors 05/07/20 (20-024)
- 81200.02 Access Control for Decommissioning Nuclear Power Reactors 10/16/20 (20-051)
- 81200.03 RESERVED for Decommissioning Force-on-Force Testing
- 81200.04 Equipment Performance, Testing, and Maintenance for Decommissioning Nuclear Power Reactors 01/05/21 (21-001)
- 81200.05 Protective Strategy Evaluation and Performance Evaluation Program for Decommissioning Nuclear Power Reactors 01/05/21 (21-001)
- 81200.06 Protection of Safeguards Information for Decommissioning Nuclear Power Reactors 01/05/21 (21-001)
- 81200.07 Security Training for Decommissioning Nuclear Power Reactors 04/01/21 (21-017)
- 81200.08 RESERVED for Decommissioning Fitness for Duty Program

81200.09	Security Plan Changes for Decommissioning Power Reactors 02/18/21 (21-009)
81200.10	RESERVED for Decommissioning Cyber Security
81200.11	RESERVED for Decommissioning Material Control and Accounting
81200.14	Review of Decommissioning Target Sets 01/05/21 (21-001)
81310	Physical Protection of Shipments of Irradiated Fuel 12/22/08 (08-037)
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)
81607	Protection of Safeguards Information and Safeguards Information Modified Handling – Non-Power Reactors 03/13/20 (20-015)
81608	Reporting of Safeguards Events – Non-Power Reactors 03/13/20 (20-015)
81612	In Transit Physical Protection of Special Nuclear Material of Moderate Strategic Significance and Receipt of New Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
81613	In Transit Physical Protection of Special Nuclear Material of Low Strategic Significance and Receipt of New Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
81614	In Transit Physical Protection of Irradiated Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
81621	Fixed Site Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material – Non-Power Reactors 03/13/20 (20-015)

81622	In Transit Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material and 100 Grams or Less of Irradiated Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
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 03/02/20 (20-012)
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 04/08/20 (20-020)
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 and Restricted Data 12/29/21 (21-041)
81822	RESERVED for Protection of Safeguards Information

8200 Emergency Planning

82001	Evaluation of Emergency Preparedness 05/22/00 (00-010) R
82001.01	ERO Performance Drills 05/22/00 (00-010) R
82001.02	ERO Performance Drills Dose Assessment 05/22/00 (00-010) R
82001.03	ERO Augmentation Drill 05/22/00 (00-010) R
82001.04	Facilities and Equipment 05/22/00 (00-010) R
82001.05	Procedure Quality 05/22/00 (00-010) R
82001.06	Remedial Exercises 05/22/00 (00-010) R
82002	Part 52, Emergency Preparedness Program 03/04/20 (20-014)
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)
82201	Emergency Detection and Classification 03/23/05 (05-008) R
82202	Protective Action Decision Making 03/23/05 (05-008) R
82301	Evaluation of Exercises for Power Plants 04/24/13 (13-012) R
82302	Review of Exercise Objectives and Scenarios for Power Reactors 04/24/13 (13-012) R
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) R

8300 Radiation Protection

83311	RESERVED for Part 52, Radiation Protection During Construction
83501	Significant Uncontrolled Radiation Exposures 04/17/00 (00-006) R
83502	Evaluation of Public Radiation Safety 04/17/11 (00-006) R
83502.01	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems 04/17/00 (00-006) R
83502.02	Radioactive Material Processing and Transportation 04/17/00 (00-006) R
83502.03	Radiological Environmental Monitoring Program (REMP) and Radioactive Material Control Program 04/17/00 (00-006) R
83523	Radiation Protection, Plant Chemistry, Radwaste, Transportation and Environmental: Training and Qualifications 01/01/84 (reactivated 08-032) R
83529	RESERVED for Part 52 Radiation Protection – Startup
83531	Part 52, Life Cycle Minimization of Contamination and Groundwater Protection Program 03/04/20 (20-013)
83532	RESERVED for Part 52 Radiation Protection, Plant Chemistry, and Radwaste Training
83533	Part 52, External Occupational Exposure Control and Personal Dosimetry 03/04/20 (20-013)
83534	Part 52, Internal Exposure Control and Assessment 03/04/20 (20-013)
83535	Part 52, Control of Radioactive Materials and Contamination, Surveys, and Monitoring 03/04/20 (20-013)
83536	Part 52, Facilities and Equipment 03/04/20 (20-013)
83537	Part 52 Maintaining Occupational Exposures ALARA 03/04/20 (20-013)
83723	General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03 (03-041) R
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) R
83729	Occupational Exposure during Extended Outages 12/31/91 (91-021) R
83746	Part 52, Offsite Dose Calculation Manual (ODCM) 05/07/20 (20-024)

- 83750 Occupational Radiation Exposure at Permanently Shutdown Reactors 11/05/20 (20-059)
- 83801 Inspection of Remedial and Final Surveys at Permanently Shutdown Reactors 01/06/21 (21-002)
- 83822 Radiation Protection 12/15/22 (22-026)
- 83890 Closeout Inspection and Survey 12/15/22 (22-026)

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) R
- 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 Program 04/30/20 (20-022)
- 84528 Part 52, Liquid Waste Management Program 04/30/20 (20-022)
- 84529 Part 52, Gaseous Waste Management Program 05/07/20(20-024)
- 84750 Radioactive Waste Treatment, and Effluent and Environmental Monitoring 11/05/20 (20-059)
- 84850 Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR Part 20 and 10 CFR Part 61 12/22/08 (08-037)
- 84900 Low-Level Radioactive Waste Storage 12/15/22 (22-026)

8500 Material Control and Accountability

- 85102 Material Control and Accounting - Reactors 03/29/85 (85-10)
- 85103 Material Control and Accounting at Decommissioning Nuclear 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 05/30/24 (24-016)
- 85205 Item Control Program 05/30/24 (24-016)
- 85207 Measurement Program 05/30/24 (24-016)
- 85209 Measurement Control Program 05/30/24 (24-016)
- 85211 Physical Inventory Program 05/30/24 (24-016)
- 85213 Resolution Program for Category II Facilities 05/30/24 (24-016)
- 85303 Material Control and Accounting Management Structure and Personnel Training and Qualification 12/17/20 (20-074)
- 85305 Item Monitoring 12/16/20 (20-073)
- 85307 Process Monitoring 12/16/20 (20-073)
- 85309 Measurement Systems and Control 11/06/20 (20-060)
- 85311 Physical Inventory Program 11/06/20 (20-060)
- 85313 Alarm Resolution Program 11/06/20 (20-060)
- 85315 Internal Control 12/16/20 (20-073)
- 85401 Management Structure 11/06/20 (20-060)
- 85402 Measurement Program 12/22/20 (20-075)

85403	Measurement Control Program 12/22/20 (20-075)
85404	Physical Inventory Program for Low Enriched Uranium Fuel Facilities 01/13/21 (21-004)
85405	Item Control 01/13/21 (21-004)
85406	Resolution Program for Low Enriched Uranium Fuel Facilities 01/13/21 (21-004)
85407	Assessment Program 12/17/20 (20-074)
85408	Recordkeeping Program 12/17/20 (20-074)
85420	Inspection of IAEA Safeguards for Inspectors at Power Reactors 06/22/88 (88-007) R
85501	Physical Inventory Program for Uranium Enrichment Facilities 12/20/20 (20-075)
85502	Detection Program for Uranium Enrichment Facilities 12/22/20 (20-075)
85503	Resolution Program for Uranium Enrichment Facilities 01/13/21 (21-004)
8600	<u>Spent Fuel and Other Radioactive Material Packaging and Shipping</u>
86001	Design, Fabrication, Testing, and Maintenance of Transportation Packagings 08/17/23 (23-024)
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 12/14/20 (20-071)
86750	Solid Radioactive Waste Management and Transportation of Radioactive Materials 10/27/20 (20-056)
8700	<u>Materials Safety Inspection</u>
87102	Maintaining Effluents from Materials Facilities As Low As Is Reasonably Achievable (ALARA) 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 12/15/22 (22-026)
87121	Industrial Radiography Programs 05/16/24 (24-015)
87122	10 CFR Part 36 Panoramic Dry-Source-Storage, Panoramic Wet-Source-Storage, and Underwater Irradiator Programs 12/21/23 (23-039)
87123	Well Logging and Tracer Study Programs 04/26/22 (22-008)
87124	Fixed Nuclear Gauge Programs 04/26/22 (22-008)
87125	Materials Processor/Manufacturer Programs 12/21/23 (23-039)
87126	Broad Scope Academic and Research & Development Programs 04/26/22 (22-008)
87127	Radiopharmacy Programs 07/01/08 (08-018)
87128	Manufacturing and Distribution of Exempt Products 08/07/19 (19-026)
87129	Master Materials Program 10/29/21 (21-036)
87130	Nuclear Medicine Programs 04/26/22 (22-008)
87131	Nuclear Medicine Programs, Written Directive Required 08/24/11 (11-014)
87132	Brachytherapy Programs 02/26/15 (15-003)

87133	Medical Gamma Sterotactic 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 12/03/20 (20-068)
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
87139	Portable Nuclear Gauge Programs 04/26/22 (22-008)
87140	Source, Special Nuclear Material, and Other Alpha Emitter Use Programs 04/26/22 (22-008)
87141	Limited Scope Academic and Research & Development Programs Including Animal Use 04/26/22 (22-008)
87142	Sealed Sources and Devices (Other) Used in Measuring Systems, Analytical Instruments, Calibration and Checking of Instruments, and Similar Purposes 04/26/22 (22-008)
87143	Self-Shielded Irradiator and Calibrator Devices 04/26/22 (22-008)
87144	Veterinary Use Programs 04/26/22 (22-008)
87250	Locating Missing Materials Licensees 10/29/01 (01-022)
87300	Groundwater Monitoring and Remediation at Decommissioning Fuel Cycle and Complex Materials Facilities 12/15/22 (22-026)
87305	Decommissioning Management Organization and Controls 12/15/22 (22-026)
87654	Uranium Mill, In-Situ Recovery, and 11e.(2) Byproduct Material Disposal Site Decommissioning Inspection 12/15/22 (22-026)

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 10/20/20 (20-052)
88020	Operational Safety 12/14/20 (20-071)
88025	Maintenance and Surveillance of Safety Controls 01/23/14 (14-003)
88030	Radiation Protection 01/29/21 (21-007)
88035	Radioactive Waste Processing, Handling, Storage, and Transportation 02/07/14 (14-005)
88045	Effluent Control and Environmental Protection 03/12/21 (21-013)
88050	Emergency Preparedness 12/17/20 (20-074)
88051	Evaluation of Exercises and Drills 11/12/20 (20-062)
88055	Fire Protection 11/09/20 (20-061)
88070	Plant Modification (Annual) 12/14/20 (20-071)
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 12/15/22 (22-026)
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 (PIRCA) (Construction, Pre-Operation and Operation) 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	Piping Systems Relied on for Safety 05/18/05 (05-013)
88135	Resident Inspection Program for Category I Fuel Cycle Facilities 12/02/20 (20-067)
88135.02	Resident Inspection Program Plant Status Activities 12/02/20 (20-067)
88135.04	Resident Inspection Program Operational Safety 12/02/20 (20-067)
88135.05	Resident Inspection Program Fire Protection (Annual/Quarterly) 12/02/20 (20-067)
88135.17	Resident Inspection Program Plant Modifications 12/02/20 (20-067)
88135.19	Resident Inspection Program Post-Maintenance Testing 12/02/20 (20-067)
88135.22	Resident Inspection Program Surveillance Testing 12/02/20 (20-067)
88136	Mechanical Components 7/25/07 (07-023)
88137	Electrical 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 Control 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)
88200	RESERVED for Inspections of Items Relied on for Safety (IROFS) During Construction of Fuel Cycle Facilities
88201	RESERVED for Inspections of Management Measure Implementation During Construction of Fuel Cycle Facilities
88202	RESERVED for IROFS

8900 Fuel Facility and Materials Special Program

89001	In-Situ Leach (ISL) Facilities 09/02/97 (97-013)
89002	RESERVED for Uranium Mill program
89003	RESERVED for Uranium Mill program
89005	Management Organization and Controls at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89010	Disposal Cell Construction at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89015	Construction and Preoperational Inspection Program at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89020	Groundwater and Water Management at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89030	Radiation Protection at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89035	Radioactive Waste Management and Transportation at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89045	Effluent Control and Environmental Protection at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89050	Emergency Preparedness and Fire Protection at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89060	Department of Energy Observational Site Visits 11/15/22 (22-026)

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 Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs or One Red Input 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) R
90712	In-office Review of Written Reports of NonRoutine Events at Power Reactor Facilities 12/31/98 (98-020) R
9100	<u>Title 10 Requirements</u>
9200	<u>Planned Non-Routine Activities</u>
92050	Review of Quality Assurance for Extended Construction Delay 04/04/00 (00-005)
92700	Onsite Follow-up of Written Reports of NonRoutine Events at Power Reactor Facilities 12/31/98 (98-020) R
92701	Followup 03/13/07 (07-010)
92702	Follow-Up On Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, and Orders 10/26/20 (20-055)
92703	Followup of Confirmatory Action Letters or Orders 05/13/09 (09-012)
92707	Security Inspection of Facilities Impacted by a Local, State, or Federal Emergency Where the U.S. Nuclear Regulatory Commission's Ability to Conduct Triennial Force-On-Force Exercises is Limited 03/14/24 (24-010)
92708	RESERVED for operating reactors pandemic response
92709	Contingency Plans for Licensee Strikes or Lockouts 05/16/19 (19-015)
92711	Implementation of Licensee Contingency Plans During a Strike/Lockout 05/16/19 (19-015)
92712	Resumption of Normal Operations after a Strike/Lockout 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 09/16/21 (21-031)
92723	Follow-Up Inspection for One Severity Level III and Two Severity Level IV Traditional Enforcement Violations or for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period 09/16/21 (21-031)
9300	<u>Non-Routine Activities</u>
93002	Managing Fatigue 09/17/19 (19-027)
93100	Safety-Conscious Work Environment Issue of Concern Follow-up 07/14/21 (21-024)
93800	Augmented Inspection Team 06/07/22 (22-012)
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 06/07/22 (22-012)
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 Response to Action Matrix Column 2 (Regulatory Response) Inputs 08/19/2021 (21-028)
95002	Supplemental Inspection Response to Action Matrix Column 3 (Degraded Performance) Inputs 03/19/2021 (CN 21-014)
95003	Supplemental Inspection Response to Action Matrix Column 4 (Multiple/Repetitive Degraded Cornerstone) Inputs 06/07/22 (22-012)
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	<u>Guidance</u> ²
9900	Technical Guidance 05/12/86 (86-26) R

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

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

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)
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)
Part 50, App A	Definition of Leak-Before-Break Analysis 09/26/96 (96-020)
Part 50	Appendix J, Containment Integrated Leak Rate Testing 12/08/86 (86-54)
70.51	Material Balance, Inventory, and Records Requirements 12/19/74 (74-11)
70.52	Report of Accidental Criticality or Loss of Special Nuclear Material 11/15/74 (74-010)

Interpretations

OPERATING EXPERIENCE

SMART SAMPLES

FY2007/01	PWR Containment Sump Recirculation Pipe Foreign Material Blockage 11/20/06 R
FY2007/02 Rev 3	Analysis of Flooding Vulnerabilities 09/11/18 (18-031)
FY2007/03 Rev 3	Crane And Heavy Lift Inspection, Supplemental Guidance to IP 71111.20 and IP 71111.13, 09/11/18 (18-031)
FY2007/04	BWR Core Power / Flow Map – supplemental inspection guidance for MC 2515D, 08/27/07 R
FY2008/01	Negative Trend and Recurring Events Involving Emergency Diesel Generators 11/29/07 R
FY2009/01	Inspection of Electrical Connections for Motor Control Center, Circuit Breakers, and Interfaces 10/29/08 R
FY2009/02	Negative Trend and Recurring Events Involving Feedwater Systems 12/23/08 R
FY2012/02 Rev 1	Technical Specification Interpretation and Operability Determination 05/17/12 R

FY2018/01	Evaluation of Licensee Actions Taken in Response to 10 CFR Part 21 Notification of the Potential Existence of Defects Related to Control Rod Drive Mechanism (CRDM) Thermal Sleeves 11/19/18 (18-040) R
FY2019/01	Commercial Grade Dedication, Procurement, and Design Control 07/30/19 (19-025)
FY2020/01	Flex Equipment Design Control, Maintenance, and Testing 10/21/20 (20-053)
FY2023/01	Digital Instrumentation and Controls 02/12/24 (24-007)
FY2023/02	Probabilistic Risk Assessment Configuration Control 01/09/24 (24-002)

END