

# NRC INSPECTION MANUAL

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| 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)  |

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| 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)

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| 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 Reserved

4500 Geotechnical/Foundation

45052          Review of Geotechnical and Site Characterization Activities  
04/05/22 (22-006)

4600 Structural Concrete

4700 Containment (Post-Tensioning)

4800 Structural Steel and Supports

4900 Piping

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

5000 Mechanical Components and Equipment

50001          Steam Generator Replacement Inspection 09/12/17 (17-018)  
50002          Steam Generators 12/31/96 (96-024) R  
50003          Pressurizer Replacement Inspection 09/12/17 (17-018)  
50054          Reactor Vessel Material Surveillance Program 12/04/08 (08-034)  
50056          RESERVED for Reactor Vessel Material Surveillance Program

5100 Electrical Components and Systems

51080          Part 52, Environmental Qualification (EQ) Program for Electrical and  
Mechanical Equipment 06/26/17 (17-013)

5200 Instrumentation Systems and Components

52003          Digital Instrumentation and Control Modification Inspection  
07/09/21 (21-023)

5300 Containment Penetrations

5400 Cleanliness

5500 Welding

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

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| 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<br>Procedure Review/Work Observation/Record Review<br>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<br>Shutdown Reactors 09/09/20 (20-041)                             |
| 60845 | Operation of Inter-Unit Fuel Transfer Canister and Cask System<br>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<br>Spent Fuel Storage Installation 08/17/23 (23-024)               |
| 60854 | Preoperational Testing of an Independent Spent Fuel Storage Installation<br>10/20/20 (20-052)   |
| 60855 | Operation of an Independent Spent Fuel Storage Installation<br>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<br>Inspection Guidance 11/12/20 (20-062)                                  |
| 60859 | RESERVED for Initial Review of Aging Management Programs at<br>Independent Spent Fuel Storage Installations                             |
| 60860 | RESERVED for Welding Verification Checklist for Transportation and<br>ISFSI Components  |



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| 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)

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| 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)   |

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| 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 &amp; 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)   |

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| 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)  |
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| 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)  |
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| 71130.09     | Security Plan Changes 07/09/24 (24-020)   |
| 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)  |

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| 71152 | Problem Identification and Resolution (PI&R) 10/31/23 (23-032)                                       |
| 71153 | Follow up of Events and Notices of Enforcement Discretion<br>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<br>Shutdown Reactors 09/30/20 (20-045) |
| 71841 | Human Performance 12/12/00 (00-027) R  |

## 7200 Startup Testing

|       |  |
|-------|--|
| 72303 | Startup Testing for ABWR: Test Procedure Review, Test Witnessing, and<br>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 In-service Inspection

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|-------|--|
| 73051 | Inservice Inspection – Review of Program 01/14/86 (86-003) R   |
| 73052 | In-service Inspection - Review of Procedures 01/14/86 (86-03) R  |
| 73054 | Part 52, Preservice and Inservice Inspection - Review of Program<br>03/04/20 (20-013)  |
| 73753 | Inservice Inspection 06/24/98 (98-010) R   |
| 73754 | Part 52 - Preservice Inspection - Non-Destructive Examination<br>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<br>09/23/19 (19-029)  |
| 73758 | Part 52, Functional Design and Qualification, and Preservice and<br>Inservice Testing Programs for Pumps, Valves and Dynamic Restraints<br>02/06/20 (20-007) |

7400 Reserved

7500 Reserved for ARCOP

7600 Reserved

7700 Reserved

7800 High Level Waste

78010 10 CFR Part 21 Program 09/11/08 (08-026)

7900 Water Chemistry

79503 RESERVED for Part 52 LWR Water Chem. Control & Chem. Analysis  
(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

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|----------|---|
| 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)  |



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| 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<br>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<br>Drills 11/08/11 (11-030)      |
| 82002.06 | Emergency Response Organization, Dose Assessment Drills<br>11/08/11 (11-030)                        |
| 82002.07 | Operational Status of the Emergency Preparedness Program<br>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<br>04/24/13 (13-012) R               |
| 82401    | Decommissioning Emergency Preparedness Scenario Review and<br>Exercise Evaluation 09/04/14 (14-020) |
| 82501    | Decommissioning Emergency Preparedness Program Evaluation<br>09/04/14 (14-020)                      |
| 82701    | Operational Status of the Emergency Preparedness Program<br>04/24/13 (13-012) R                     |

## 8300 Radiation Protection

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|----------|--|
| 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<br>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<br>Material Control Program 04/17/00 (00-006) R                                 |
| 83523    | Radiation Protection, Plant Chemistry, Radwaste, Transportation and<br>Environmental: Training and Qualifications<br>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<br>Protection Program 03/04/20 (20-013)  |

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| 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

|       |   |
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| 85102 | Material Control and Accounting - Reactors 03/29/85 (85-10) |
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| 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)    |

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| 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 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 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  | <u>Fuel Facility Inspection</u>   |
| 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   |

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| 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<br>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<br>12/15/22 (22-026)   |
| 88106 | Quality Assurance: Program Development and Implementation<br>(Pre-licensing and Construction) 02/07/07 (07-006)   |
| 88107 | Quality Assurance: Design and Documentation Control (Pre-licensing and<br>Construction) 05/18/05 (05-013)   |
| 88108 | Quality Assurance: Control of Materials, Equipment, and Services<br>(Pre-licensing and Construction) 02/07/07 (07-006)                                  |
| 88109 | Quality Assurance: Inspection, Test Control, and Control of Measuring<br>and Test Equipment (Pre-licensing and Construction) 06/20/07 (07-020)          |
| 88110 | Quality Assurance: Problem Identification, Resolution and Corrective<br>Action (PIRCA) (Construction, Pre-Operation and Operation)<br>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<br>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<br>(10 CFR 70.72) (Pre-Licensing and Construction) 09/20/16 (16-023)                          |
| 88120 | RESERVED Draft Construction and Operational Readiness Inspections<br>for the Internal Isotopes Uranium Deconversion Facility                            |
| 88121 | RESERVED for Draft Operational Readiness Reviews for Uranium<br>Deconversion Facilities   |
| 88130 | Resident Inspection Program for On-Site Construction Activities at the<br>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)   |

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| 88135    | Resident Inspection Program for Category I Fuel Cycle Facilities<br>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)<br>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<br>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<br>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<br>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<br>07/28/14 (14-017)  |
| 88200    | RESERVED for Inspections of Items Relied on for Safety (IROFS) During<br>Construction of Fuel Cycle Facilities                        |
| 88201    | RESERVED for Inspections of Management Measure Implementation<br>During Construction of Fuel Cycle Facilities                         |
| 88202    | RESERVED for IROFS  |
| 8900     | <u>Fuel Facility and Materials Special Program</u>  |
| 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<br>11e.(2) Byproduct Material Facilities 10/08/21 (21-034)               |
| 89010    | Disposal Cell Construction at Uranium Recovery and 11e.(2) Byproduct<br>Material Facilities 10/08/21 (21-034)                         |
| 89015    | Construction and Preoperational Inspection Program at Uranium<br>Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034) |

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| 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

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| 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 Title 10 Requirements

#### 9200 Planned Non-Routine Activities

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| 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   |



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| 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 Materials Safety and Security

96001 NRC Force-on-Force Inspections at Category 1 Fuel Cycle Facilities  
03/11/19 (19-010)

9700 Reserved

9800 Reserved

9900 Guidance<sup>2</sup>

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

**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

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

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   | Transportation of Radioactive Material 12/01/04 (04-027)                                  |
| 49 CFR171-178  |   |
| 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<br>12/08/86 (86-54)                  |
| 70.51          | Material Balance, Inventory, and Records Requirements<br>12/19/74 (74-11)                 |
| 70.52          | Report of Accidental Criticality or Loss of Special Nuclear Material<br>11/15/74 (74-010) |

## Interpretations

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

|                 |  |
|-----------------|--|
| FY2007/01       | PWR Containment Sump Recirculation Pipe Foreign Material Blockage 11/20/06 <b>R</b>  |
| FY2007/02 Rev 3 | Analysis of Flooding Vulnerabilities 09/11/18 (18-031)   |
| FY2007/03 Rev 3 | Crane And Heavy Lift Inspection, Supplemental Guidance to IP 71111.20 and IP 71111.13, 09/11/18 (18-031)   |
| FY2007/04       | BWR Core Power / Flow Map – supplemental inspection guidance for MC 2515D, 08/27/07 <b>R</b>   |
| FY2008/01       | Negative Trend and Recurring Events Involving Emergency Diesel Generators 11/29/07 <b>R</b>  |
| FY2009/01       | Inspection of Electrical Connections for Motor Control Center, Circuit Breakers, and Interfaces 10/29/08 <b>R</b>  |
| FY2009/02       | Negative Trend and Recurring Events Involving Feedwater Systems 12/23/08 <b>R</b>  |
| FY2012/02 Rev 1 | Technical Specification Interpretation and Operability Determination 05/17/12 <b>R</b>   |
| FY2018/01       | Evaluation of Licensee Actions Taken in Response to 10 CFR Part 21 Notification of the Potential Existence of Defects Related to Control Rod Drive Mechanism (CRDM) Thermal Sleeves 11/19/18 (18-040) <b>R</b> |
| FY2019/01       | Commercial Grade Dedication, Procurement, and Design Control 07/30/19 (19-025)   |
| FY2020/01       | Flex Equipment Design Control, Maintenance, and Testing 10/21/20 (20-053)  |
| FY2023/01       | Digital Instrumentation and Controls 02/12/24 (24-007)   |
| FY2023/02       | Probabilistic Risk Assessment Configuration Control 01/09/24 (24-002)  |

END