

# NRC INSPECTION MANUAL

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| 2518               | RESERVED for Construction Inspection Program: Advanced Reactors, Pre-Construction Permit (CP)  |
| 2519               | Construction Significance Determination Process 12/06/17 (17-028)  |
| 2522               | Construction Reactor Oversight Process Self-Assessment Program<br>07/28/14 (14-017)  |
| 2522, App A        | Construction Reactor Oversight Process Self-Assessment Metrics<br>10/03/17 (17-021)  |
| 2523               | NRC Application of the Reactor Operating Experience Program in NRC Oversight Processes 06/19/13 (13-014)   |
| 2545               | Research and Test Reactor Inspection Program 06/23/04 (04-018)   |

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| 2550        | Non-Power Protection Facilities (NPUFs) Licensed Under 10 CFR Part 50: Construction Inspection Program (CIP) 05/01/18 (18-009)  |
| 2561        | Decommissioning Power Reactor Inspection Program 03/06/18 (18-007)  |
| 2600        | <u>Fuel Cycle Facility Inspection Program</u>   |
| 2600        | Fuel Cycle Facility Operational Safety and Safeguards Inspection Program 03/11/19 (19-010)  |
| 2600, App A | Guidance for Conducting Fuel Cycle Inspections 09/24/15 (15-018)  |
| 2600, App B | NRC Core Inspection Requirements, Tables 1 and 2 06/12/18 (18-015)  |
| 2600, App C | Fuel Cycle Resident Inspection Program 10/09/19 (19-033)  |
| 2600, App D | Fuel Cycle Facility Inspection Planning 06/12/18 (18-015)   |
| 2600/016    | Inspection of Activities Associated with NRC Generic Letter 2015-01 11/09/16 (16-029)   |
| 2601        | Reactive Inspection Decision Making Process for Fuel Facilities 09/20/16 (16-023)   |
| 2602        | Decommissioning Oversight and Inspection Program for Fuel Cycle Facilities and Materials Licensees 07/29/08 (08-021)  |
| 2603        | RESERVED for Fuel Cycle Facility Construction Inspection Program Assessment   |
| 2604        | Licensee Performance Review 09/20/16 (16-023)   |
| 2606        | Assessment of the Change in Risk Resulting From a Violation at a Fuel Cycle Facility 04/01/16 (16-010)  |
| 2606, E-2   | Evaluation Based on Specific Licensee ISAs 09/26/12 (12-022)  |
| 2620        | On-Site Construction Reviews of Remedial Action at Inactive Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation Control Act) 10/05/01 (01-020)   |
| 2630        | Mixed Oxide Fuel Fabrication Facility Construction Inspection Program 09/20/16 (16-023)   |
| 2635        | RESERVED for Uranium Enrichment Facility Construction and Pre-Operational Readiness Review Inspection Programs  |
| 2641        | In-Situ Leach Facilities Inspection Program 08/25/00 (00-014)   |
| 2650        | Fuel Cycle Inspection Assessment Program 11/08/18 (18-038)  |
| 2681        | Physical Protection and Transport of SNM and Irradiated Fuel Inspections of Fuel Facilities 10/27/17 (17-023)   |
| 2681/009    | Inspection Guidance and Requirements for Physical Protection of the Transfer, Loading and Shipment of Irradiated Special Nuclear Material from General Atomics Facility, San Diego, California to U.S. Department of Energy, Idaho National Laboratory, Scoville, Idaho 08/12/10 (10-017) |
| 2682        | Technical Assistance for Safeguards MC&A Inspections at Fuel Facilities 06/18/84 (84-18)  |
| 2683        | MC&A Safeguards Inspection of Fuel Facilities 05/09/14 (14-011)   |
| 2690        | Inspection Program for Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations and for 10 CFR Part 71 Transportation Packagings 03/09/12 (12-004)   |
| 2690/011    | Review of Aging Management Programs at Independent Spent Fuel Storage Installations 01/30/18 (18-002)   |
| 2694        | Fuel Cycle Facility Construction and Pre-operational Readiness Review Inspection Programs 08/30/17 (17-017)   |

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| 2696     | Louisiana Energy Services Gas Centrifuge Facility Construction and Pre-Operational Readiness Review Inspection Programs 10/19/06 (06-028)                |
| 2700     | <u>Licensee Contractor and Vendor Inspection Program</u>   |
| 2800     | <u>Materials Inspection Program</u>  |
| 2800     | Materials Inspection Program 09/12/17 (17-018)   |
| 2800/030 | Verification of the Status of Devices Authorized For Use Under a General License 05/30/00 (00-011)   |
| 2800/032 | Follow-up - Materials Safeguard Advisory 10/31/01 (01-023)   |
| 2800/036 | Inspection of Manufacturing and Distribution Licensees 09/13/04 (04-024)   |
| 2800/037 | Safety Procedures for Panoramic Irradiators Rev 1 07/14/05 (05-019)  |
| 2800/040 | Material Control and Accounting at Nuclear Power Plants and Wet Storage Sites 03/07/11 (11-002)  |
| 2800/041 | 10 CFR Part 37 Materials Security Review at Facilities with a Title 10 Code of Federal Regulations Part 73 Physical Protection Program 07/01/15 (15-013) |
| 2800/043 | Inspection of Facilities Potentially Contaminated with Discrete Radium 226 Sources 12/20/19 (19-041)   |
| Rev 3    |  |
| 2801     | Uranium Mill 11e.(2) Byproduct Material Disposal Site and Facility Inspection Program 08/25/00 (00-014)  |
| 2810     | Master Materials License Oversight and Inspection Program 10/11/12 (12-023)  |
| 2815     | Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators 03/27/01 (01-010)  |
| 2882     | Transfer of NRC License Files to Agreement State(s) 12/03/01 (01-029)  |
| 2900     | <u>Performance Appraisal Program</u>   |
| 2901     | Team Inspections 08/24/01 (01-016)   |
| 2920     | Construction Appraisal Team Inspection Program 03/29/85 (85-11)  |
| 3000     | <u>Management Meetings</u>   |
| 30800    | Initial Management Meeting - Materials Licensees 10/01/76 (76-26)  |
| 3100     | <u>Reserved</u>  |
| 3200     | <u>Reserved</u>  |
| 3300     | <u>Reserved</u>  |

3400 Reserved

3500 Quality Assurance

- 35002 Early Site Permit Pre-Docketing Quality Assurance Controls Meeting 05/29/03 (03-018)
- 35004 Pre-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
- 35006 Post-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
- 35007 Quality Assurance Program Implementation During Construction and Pre-Construction Activities 12/08/16 (16-032)
- 35012 Early Site Permit Quality Assurance Controls Assessment and Conclusion 05/29/03 (03-018)
- 35017 Quality Assurance Implementation Inspection 07/29/08 (08-021)
- 35023 RESERVED for Design Reliability Assurance Program
- 35031 RESERVED for Design Certification Pre-Meeting
- 35032 RESERVED for Pre-Docketing Design Certification Quality Assurance Controls Inspection
- 35033 RESERVED for Post-Docketing Design Certification Quality Assurance Controls Inspection
- 35034 Design Certification Testing Inspection 01/27/10 (10-003)
- 35101 QA Program Implementation Inspection for Operational Programs 07/08/16 (16-015)
- 35701 Quality Assurance Program Review 09/17/01 (01-017)
- 35710 Quality Assurance Inspection of Software Used in Nuclear Applications 01/30/18 (18-002)
- 35962 RESERVED for Part 52 QA Program Evaluation of Engineering Service Organization

3600 Organization and Administration

- 36100 Inspection of 10 CFR Parts 21 and 50.55(e) Programs for Reporting Defects and Noncompliance 05/16/19 (19-015)
- 36100.01 Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance During Construction 11/13/19 (19-035)
- 36302 Part 52. Operational Staffing 08/19/08 (08-024)
- 36801 Organization, Management, and Cost Controls at Permanently Shutdown Reactors 08/11/97 (97-012)

3700 Design, Design Changes, Modifications

- 37060 Inspections under the 10CFR Part 50.69 Special Program 09/14/11 (11-016)
- 37700 Design Changes, and Modifications 09/17/01 (01-017)
- 37801 Safety Reviews, Design Changes, and Modifications at

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|       | Permanently Shutdown Reactors 08/11/97 (97-012)   |
| 37803 | RESERVED  |
| 37804 | Aircraft Impact Assessment Inspection 02/09/12 (12-001)   |
| 37805 | Engineering Design Verification Inspections 04/25/11 (11-007)   |
| 3800  | <u>Procurement</u>  |
| 3900  | <u>Records</u>  |
| 39701 | Records Program 09/17/01 (01-017)   |
| 4000  | <u>Review and Audit</u>   |
| 40002 | Inspections to Review Allegations 06/28/02 (02-024)   |
| 40100 | Independent Safety Culture Assessment Follow-up 07/26/18 (18-022)   |
| 40505 | RESERVED for Effectiveness of Process to Identify, Resolve, and Prevent Construction Problems                   |
| 40600 | Licensee Program for Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Management 07/28/14 (14-017) |
| 40801 | Self-Assessment, Auditing, and Corrective Action at Permanently Shutdown Reactors 08/11/97 (97-012)             |
| 4100  | <u>Training</u>   |
| 41500 | Training and Qualification Effectiveness 06/13/95 (95-007)  |
| 41501 | Review of Training and Qualification Programs 06/04/19 (19-018)   |
| 41502 | Nuclear Power Plant Simulation Facilities 10/16/12 (12-024)   |
| 4200  | <u>Procedures</u>   |
| 42001 | Emergency Operating Procedures 06/28/91 (91-009)  |
| 42401 | Part 52, Plant Procedures 10/27/10 (10-022)   |
| 42453 | Part 52, Operating Procedures Inspection 08/19/08 (08-024)  |
| 42454 | Part 52, Emergency Operating Procedures 09/09/13 (13-020)   |
| 42700 | Plant Procedures 11/15/95 (95-015)  |
| 4300  | <u>Vendor Procedures</u>  |
| 43002 | Routine Inspections of Nuclear Vendors 01/27/17 (17-002)  |
| 43003 | Reactive Inspections of Nuclear Vendors 12/14/15 (15-029)   |
| 43004 | Inspection of Commercial-Grade Dedication Programs 01/27/17 (17-002)  |
| 43005 | NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 10/08/15 (15-019)        |

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| 43006 | Inspection of the Implementation of Mitigation Strategies Orders<br>Regarding the Use of National Response Centers 09/30/16 (16-025) |
| 4400  | <u>Reserved</u>  |
| 4500  | <u>Geotechnical/Foundation</u>   |
| 45051 | Geotechnical/Foundation Activities Procedure Review 05/29/03 (03-018)  |
| 45052 | Review of Geotechnical and Site Characterization Activities<br>10/03/07 (07-030)   |
| 4600  | <u>Structural Concrete</u>   |
| 4700  | <u>Containment (Post-Tensioning)</u>   |
| 4800  | <u>Structural Steel and Supports</u>   |
| 4900  | <u>Piping</u>  |
| 5000  | <u>Mechanical Components and Equipment</u>   |
| 50001 | Steam Generator Replacement Inspection 09/12/17 (17-018)   |
| 50002 | Steam Generators 12/31/96 (96-024)   |
| 50003 | Pressurizer Replacement Inspection 09/12/17 (17-018)   |
| 50054 | Reactor Vessel Material Surveillance Program 12/04/08 (08-034)   |
| 50056 | RESERVED for Reactor Vessel Material Surveillance Program  |
| 5100  | <u>Electrical Components and Systems</u>   |
| 51080 | Part 52, Environmental Qualifications (EQ) Program for Electrical and<br>Mechanical Equipment 06/26/17 (17-013)                      |
| 5200  | <u>Instrumentation Systems and Components</u>  |
| 52003 | Digital Instrumentation and Control Modification Inspection<br>10/31/08 (08-031)   |
| 5300  | <u>Containment Penetrations</u>  |
| 5400  | <u>Cleanliness</u>   |

5500 Welding

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

5600 Calibration

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

5700 Nondestructive Examination, Destructive Examination and Fabrication Testing

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

5800 Special Processes

5900 Reserve Shutdown System

6000 Fuel Fabrication, Handling and Storage

- 60705 Preparation for Refueling 07/27/95 (95-009)
- 60710 Refueling Activities 07/27/95 (95-009)
- 60715 Spent Fuel Safety at Operating Reactors 10/30/15 (15-022)
- 60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors 01/11/16 (16-001)
- 60845 Operation of Intra-Unit Fuel Transfer Canister and Cask System 05/16/19 (19-015)
- 60851 Design Control of ISFSI Components 01/16/08 (08-003)
- 60852 ISFSI Component Fabrication by Outside Fabricators 01/16/08 (08-003)
- 60853 On-Site Fabrication of Components and Construction of an ISFSI 01/16/08 (08-003)
- 60854 Preoperational Testing of an Independent Spent Fuel Storage Installation 01/16/08 (08-003)
- 60854.1 Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants 05/16/19 (19-015)
- 60855 Operation of an Independent Spent Fuel Storage Installation 01/16/08 (08-003)
- 60855.1 Operation of an Independent Spent Fuel Storage Installation at Operating Plants 05/16/19 (19-015)



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

#### 6100 Surveillance

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

#### 6200 Maintenance

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

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| 62710     | Power-Operated Gate Valve Pressure Locking and Thermal Binding<br>04/30/10 (10-013)  |
| 62711     | RESERVED for Operational Reliability Assurance Process   |
| 62712     | Part 52, Maintenance Rule 08/13/13 (13-017)  |
| 62801     | Maintenance and Surveillance at Permanently Shutdown<br>Reactors 08/11/97 (97-012)   |
| 6300      | <u>Construction Testing</u>  |
| 6400      | <u>Fire Prevention/Protection</u>  |
| 64102     | RESERVED for Part 52 Post fire Safe Shutdown, Emergency Lighting<br>and Oil Collection Capabilities                                |
| 64704     | Fire Protection Program 06/24/98 (98-010)  |
| 64705     | Part 52, Fire Protection Operational Program 06/04/19 (19-018)   |
| 6500      | <u>10 CFR Part 52 ITAAC Inspections</u>  |
| 65001     | Inspections of Inspections, Tests, Analyses, and Acceptance Criteria<br>(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<br>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<br>08/13/14 (14-018)                                      |
| 65001.05  | Inspection of ITAAC-Related Installation of Reactor Pressure Vessel and<br>Internals 08/19/08 (08/19/08)                           |
| 65001.06  | Inspection of ITAAC-Related Installation of Mechanical Components<br>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<br>Systems 08/19/08 (08-024)                                   |
| 65001.09  | Inspection of ITAAC-Related Installation of Electric and Fiber Optic Cable<br>08/05/09 (09-019)                                    |
| 65001.10  | Inspection of ITAAC-Related Installation of Instrument Components and<br>Systems 10/20/08 (08-029)                                 |
| 65001.11  | Construction Inspection Program Inspection of ITAAC-Related<br>Containment Integrity and Containment Penetration 08/19/08 (08-024) |
| 65001.11A | Containment Structural Integrity Test 12/20/19 (19-041)  |
| 65001.12  | Inspection of ITAAC-Related Installation of Heating, Ventilating, and Air<br>Conditioning Systems 07/29/08 (08-021)                |
| 65001.13  | Inspection of ITAAC-Related Installation of Load Handling Equipment and<br>Fuel Racks 08/05/09 (09-019)                            |
| 65001.14  | Inspection of ITAAC-Related Installation of Complex Systems with<br>Multiple Components 06/24/15 (15-012)                          |
| 65001.15  | Inspection of ITAAC-Related Installation of Fire Protection Equipment<br>07/01/08 (08-019)   |

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| 65001.16        | Inspection of ITAAC-Related Engineering 06/20/14 (14-013)   |
| 65001.17        | Inspection of ITAAC-Related Security Structures, Systems, and Components 09/30/16 (16-025)  |
| 65001.18        | Inspection of Emergency Planning ITAAC 10/30/08 (08-030)  |
| 65001.19        | Inspection of Installation of ITAAC-Related Radiation Monitoring Components and Systems 10/20/08 (08-029)                                   |
| 65001.20        | Inspection of Safety-Related Piping Design Acceptance Criteria (DAC)-Related ITAAC 06/02/11 (11-009)  |
| 65001.21        | Inspection of Pipe Rupture Hazard Analysis Design Acceptance Criteria (DAC) – Related ITAAC 11/07/11 (11-029)                               |
| 65001.22        | Inspection of Digital Instrumentation and Control (DI&C) System/Software Design Acceptance Criteria (DAC) – Related ITAAC 12/19/11 (11-041) |
| 65001.23        | Inspection of Human Factors Engineering Integrated System Validation ITAAC 12/22/14 (14-031)  |
| 65001.23, App A | Inspection Guide for AP1000 Human Factors Engineering Integrated System Validation 12/22/14 (14-031)  |
| 65001.A         | ITAAC Attributes for As-Built Inspection 09/25/13 (13-023)  |
| 65001.B         | Inspection of the ITAAC-Related Welding Program 11/04/19 (19-034)   |
| 65001.C         | Inspection of the ITAAC-Related Construction Test Program 04/18/14 (14-010)   |
| 65001.D         | Inspection of the ITAAC-Related Operational Testing Program 05/09/14 (14-011)   |
| 65001.E         | Inspection of the ITAAC-Related Qualification Program 06/20/14 (14-013)   |
| 65001.F         | Inspection of the ITAAC-Related Design and Fabrication Requirements 09/20/13 (13-022)   |
| 6600            | <u>Reserved</u>   |
| 6700            | <u>Reserved</u>   |
| 6800            | <u>Reserved</u>   |
| 6900            | <u>Non-Power Reactor Inspection</u>   |
| 69001           | Class II Research and Test Reactors 02/03/04 (04-004)   |
| 69002           | Class III Research and Test Reactors 02/03/04 (04-004)  |
| 69003           | Class I Research and Test Reactor Operator Licenses, Requalification, and Medical Examinations 02/03/04 (04-004)                            |
| 69004           | Class I Research and Test Reactor Effluent and Environmental Monitoring 02/03/04 (04-004)   |
| 69005           | Class I Research and Test Reactor Experiments 02/03/04 (04-004)   |
| 69006           | Class I Research and Test Reactors Organization and Operations and Maintenance Activities 02/03/04 (04-004)                                 |
| 69007           | Class I Research and Test Reactor Review and Audit and Design Change Functions 02/03/04 (04-004)  |

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| 69008 | Class I Research and Test Reactor Procedures 02/03/04 (04-004)   |
| 69009 | Class I Research and Test Reactor Fuel Movement<br>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<br>02/03/04 (04-004)  |
| 69012 | Class I Research and Test Reactors Radiation Protection<br>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<br>of Non-Power Production and Utilization Facilities 12/14/15 (15-029)         |
| 69021 | Inspections of Quality Assurance Program Implementation During<br>Construction of Non-Power Production and Utilization Facilities<br>09/12/17 (17-018) |
| 69022 | Inspections of Operational Readiness During Construction of Non-Power<br>Production and Utilization Facilities 10/09/19 (19-033)                       |

## 7000 Preoperational Testing

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|-------|--|
| 70307 | Containment Integrated Leak Rate Test - Procedure<br>Review 03/07/86 (86-13) |
| 70313 | Containment Integrated Leak Rate Test 11/12/85 (85-36)                       |
| 70323 | Containment Leak Rate Test Results Evaluation 10/03/85 (85-30)               |
| 70367 | Inspection of Pre-operational Test Program 01/15/14 (14-001)                 |
| 70368 | Part 52 Containment Leak Rate Testing (Programmatic)<br>06/26/17 (17-013)    |
| 70369 | RESERVED for Part 52 Containment Leak Rate Testing                           |
| 70371 | RESERVED for Part 52 Testing of Pipe Support and Restraint System            |
| 70701 | RESERVED   |
| 70702 | Inspection of Preoperational Test Performance 12/06/17 (17-028)              |

## 7100 Operations (License & TS Requirements)

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

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

## 7200 Startup Testing

|       |  |
|-------|--|
| 72303 | Startup Testing for ABWR: Test Procedure Review, Test Witnessing, and<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 09/26/19 (19-031)  |
| 72501 | RESERVED for Part 52 Initial Fuel Load Procedure Review  |
| 72525 | RESERVED for Part 52 Initial Fuel Load Witnessing  |

## 7300 In-service Inspection

|       |  |
|-------|--|
| 73052 | In-service Inspection - Review of Procedures 01/14/86 (86-03)  |
| 73054 | Part 52, Pre-service and In-service Inspection - Review of Program<br>05/03/17 (17-009)  |
| 73753 | In-service Inspection 06/24/98 (98-010)  |
| 73754 | Part 52 - Preservice Inspection - Non-Destructive Examination<br>09/23/19 (19-029)   |
| 73755 | In-service Inspection - Data Review and Evaluation 10/27/10 (10-022)   |
| 73756 | In-service Testing of Pumps and Valves 07/27/95 (95-009)   |
| 73757 | Part 52 In-service Inspection - Data Review and Evaluation<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

## 7600 Reserved

7700 Reserved

7800 High Level Waste

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

7900 Water Chemistry

79503 RESERVED for Part 52 LWR Water Chem. Control & Chem. Analysis  
(Pre-Op and Supp)

79504 RESERVED for Part 52 Plant systems Affecting Plant Water Chem.

79702 Control and monitoring of Radiological Source Term 04/17/00 (00-006)

8000 Environmental Protection

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

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

80600 RESERVED for Independent Assessment of Site Radiological Conditions

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

8100 Physical Security

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

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

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

81000.03 Performance Evaluation Program 09/07/12 (12-020)

81000.04 Equipment Performance, Testing and Maintenance 07/01/19 (19-020)

81000.05 Protective Strategy Evaluation 09/24/19 (19-030)

81000.06 Protection of Safeguards Information 02/13/19 (19-007)

81000.07 Security Training 09/24/19 (19-030)

81000.08 Fitness for Duty Operational Program 09/07/12 (12-020)

81000.09 Cyber Security Inspection for Construction 09/30/16 (16-025)

81000.10 Security Organization, Management Effectiveness, Program Reviews and  
Audits 09/07/12 (12-020)

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

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

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

81120 Inspection Requirements and Guidance for Additional Security Measures  
for the Physical Protection in Transit for Radioactive Material Quantities of  
Concern 04/01/10 (10-010) (Note this IP contains safeguards material)

81200 Security 08/27/14 (14-019)

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

81200.02 Access Control for Decommissioning Nuclear Power Reactors

|          |   |
|----------|---|
|          | 08/27/14 (14-019)   |
| 81200.03 | RESERVED for Decommissioning Force-on-Force Testing   |
| 81200.04 | Equipment Performance, Testing, and Maintenance for Decommissioning Nuclear Power Reactors 08/27/14 (14-019)                          |
| 81200.05 | Protective Strategy Evaluation and Performance Evaluation Program for Decommissioning Nuclear Power Reactors 10/21/14 (14-025)        |
| 81200.06 | Protection of Safeguards Information for Decommissioning Nuclear Power Reactors 08/27/14 (14-019)                                     |
| 81200.07 | Security Training for Decommissioning Nuclear Power Reactor 10/21/14 (14-025)   |
| 81200.08 | RESERVED for Decommissioning Fitness for Duty Program   |
| 81200.10 | RESERVED for Decommissioning Cyber Security   |
| 81200.11 | RESERVED for Decommissioning Material Control and Accounting  |
| 81200.14 | Review of Decommissioning Target Sets 01/15/14 (14-001)   |
| 81310    | Physical Protection of Shipments of Irradiated Fuel 12/22/08 (08-037)   |
| 81311    | Physical Security Requirements for Independent Spent Fuel Storage Installations 02/08/19 (19-006)                                     |
| 81335    | Physical Protection of Shipments of Special Nuclear Material of Moderate Strategic Significance (SNM-MSS) 12/02/09 (09-029)           |
| 81340    | Physical Protection of Shipments of Special Nuclear Material of Low Strategic Significance (SNM-LSS) 11/23/09 (09-028)                |
| 81360    | General Requirements for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 12/02/09 (09-029)           |
| 81365    | Records, Reports, and Planning for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 11/23/09 (09-028) |
| 81370    | Specific Requirements for Physical Protection of Formula Quantities of Special Nuclear Materials in Transit 12/22/08 (08-037)         |
| 81402    | Reports of Safeguards Events 11/23/09 (09-028)  |
| 81411    | Physical Protection for Reactors with Formula Quantities of Special Nuclear Material 11/04/85 (85-34)                                 |
| 81421    | Fixed Site Physical Protection of Special Nuclear Material of Moderate Strategic Significance 11/23/09 (09-028)                       |
| 81431    | Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance 10/24/12 (12-025)                            |
| 81501    | Personnel Training and Qualification - General Requirements 12/02/09 (09-029)   |
| 81504    | Fitness for Duty Program for Construction 10/15/09 (09-024)   |
| 81505    | Protection of Safeguards Information for Construction 02/13/19 (19-007)   |
| 81700.01 | Category I Fuel Cycle Facility Strategic Special Nuclear Material Security Controls 05/15/17 (17-010)                                 |
| 81700.02 | Category I Fuel Cycle Facility Access Control Measures 05/15/17 (17-010)  |
| 81700.04 | Category I Fuel Cycle Facility Security Equipment Performance, Testing and Maintenance 05/15/17 (17-010)                              |
| 81700.05 | Category I Fuel Cycle Facility Physical Protection Program and Protective Strategy 05/15/17 (17-010)                                  |
| 81700.06 | Licensee Conducted Force-on-Force Exercises at Category I Fuel Cycle Facilities 10/27/17 (17-023)                                     |
| 81700.07 | Category I Fuel Cycle Facility Security Training 05/15/17 (17-010)  |



|          |  |
|----------|--|
| 81700.08 | Category I Fuel Cycle Facility Fitness-for-Duty Programs<br>05/15/17 (17-010)  |
| 81700.09 | Security Measures for Licensed Facilities 10/26/15 (15-021)  |
| 81700.10 | Protection of Safeguards Information at Category I Fuel Cycle Facilities<br>05/15/17 (17-010)  |
| 81700.11 | Annual Observation of Licensee Conducted Force-on-Force Exercises at<br>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<br>and Vendors 09/06/16 (16-022)                                       |
| 81815    | Authorization for Access to National Security Information<br>(NSI) and Restricted Data (RD) 06/27/14 (14-014)                                  |
| 81820    | Physical Protection Facility Approval and Safeguarding<br>of National Security Information (NSI) and Restricted<br>Data (RD) 06/27/14 (14-014) |

## 8200 Emergency Planning

|          |  |
|----------|--|
| 82001    | Evaluation of Emergency Preparedness 05/22/00 (00-010)   |
| 82002    | Part 52, Emergency Preparedness Program 14/28/14 (14-026)  |
| 82002.01 | Facilities and Equipment 11/08/11 (11-030)   |
| 82002.02 | Procedure Quality 11/08/11 (11-030)  |
| 82002.03 | Review of Exercise Objectives and Exercise Scenario for Power Reactors<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)  |
| 82002.08 | Inspection of Site Specific Implementation of 10 CFR 50.54(hh)(2)<br>Mitigating Strategies for Nuclear Power Plants Referencing the AP1000<br>Certified Design 09/17/18 (18-031) |
| 82201    | Emergency Detection and Classification 03/23/05 (05-008)   |
| 82202    | Protective Action Decision Making 03/23/05 (05-008)  |
| 82301    | Evaluation of Exercises for Power Plants 04/24/13 (13-012)   |
| 82302    | Review of Exercise Objectives and Scenarios for Power Reactors<br>04/24/13 (13-012)  |
| 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)  |

## 8300 Radiation Protection

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

|          |  |
|----------|--|
|          | 12/30/91 (91-022)  |
| 83311    | RESERVED for Part 52, Radiation Protection During Construction   |
| 83501    | Significant Uncontrolled Radiation Exposures 04/17/00 (00-006)   |
| 83502.01 | Radioactive Gaseous and Liquid Treatment and Monitoring Systems 04/17/00 (00-006)  |
| 83502.02 | Radioactive Material Process and Transportation 04/17/00 (00-006)  |
| 83502.03 | Radiological Environmental Monitoring Program and Radioactive Material Control Program 04/17/00 (00-006)                                     |
| 83523    | Radiation Protection, Plant Chemistry, Radwaste, Transportation and Environmental: Training and Qualifications 01/01/84 (reactivated 08-032) |
| 83527    | Facilities and Equipment (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)   |
| 83529    | RESERVED for Part 52 Radiation Protection – Startup  |
| 83531    | Part 52 Life Cycle Minimization of Contamination and Groundwater Protection Program 12/21/16 (16-035)  |
| 83532    | RESERVED for Part 52 Radiation Protection, Plant Chemistry, and Radwaste Training  |
| 83533    | Part 52 External Occupational Exposure Control and Personal Dosimetry 10/27/10 (10-022)  |
| 83534    | Part 52, Internal Exposure Control and Assessment 10/27/10 (10-022)  |
| 83535    | Part 52, Control of Radioactive Materials and Contamination, Surveys, and Monitoring 10/27/10 (10-022)                                       |
| 83536    | Part 52 Facilities and Equipment 10/27/10 (10-022)   |
| 83537    | Part 52 Maintaining Occupational Exposures ALARA 10/27/10 (10-022)   |
| 83722    | Radiation Protection, Plant Chemistry, and Radwaste: Organization and Management Controls (Minimum/Basic) 09/17/01 (01-017)                  |
| 83723    | General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03 (03-041)                                 |
| 83724    | External Occupational Exposure Control and Personal Dosimetry 04/17/00 (00-006)  |
| 83725    | Internal Exposure Control and Assessment 04/17/00 (00-006)   |
| 83726    | Control of Radioactive Materials and Contamination, Surveys and Monitoring 11/13/14 (14-027)   |
| 83728    | Maintaining Occupational Exposures ALARA 04/17/00 (00-006)   |
| 83729    | Occupational Exposure during Extended Outages 12/31/91 (91-021)  |
| 83746    | Part 52 Offsite Dose Calculation Manual (ODCM) 07/29/08 (08-021)   |
| 83750    | Occupational Radiation Exposure 11/14/19 (19-036)  |
| 83801    | Inspection of Remedial and Final Surveys at Permanently Shutdown Reactors 11/26/19 (19-038)  |
| 83822    | Radiation Protection 09/07/00 (00-016)   |
| 83890    | Closeout Inspection and Survey 05/01/03 (03-013)   |

#### 8400 Radioactive Waste Management

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

|       |  |
|-------|--|
| 84525 | Quality Assurance and Confirmatory Measurements for In-Plant Radiochemical Analysis (Preoperational and Supplemental) 5/23/85 (reactivated 08-032) |
| 84526 | RESERVED for Part 52 Radwaste – Startup  |
| 84527 | Part 52, Solid Waste Management System 07/01/08 (08-019)   |
| 84528 | Part 52 Liquid Waste Management Program 10/19/16 (16-027)  |
| 84529 | Part 52, Gaseous Waste Management Program 10/19/16 (16-027)  |
| 84750 | Radioactive Waste Treatment, and Effluent and Environmental Monitoring 11/14/19 (19-036)   |
| 84850 | Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR 20 and 10 CFR 61 12/22/08 (08-037)                             |
| 84900 | Low-Level Radioactive Waste Storage 12/22/08 (08-037) (Preoperational and Supplemental)  |

## 8500 Material Control and Accountability

|       |   |
|-------|---|
| 85102 | Material Control and Accounting - Reactors 03/29/85 (85-10)   |
| 85103 | Material Control and Accounting at Decommissioning Power Reactors 07/03/18 (18-019)                             |
| 85200 | MC&A for Licensees Possessing Less Than or Equal to One Effective Kilogram of SNM 04/10/85 (85-15)              |
| 85203 | Management Structure and Controls 08/10/16 (16-020)   |
| 85205 | Facility Operations and Internal Controls 08/10/16 (16-020)   |
| 85207 | Measurement Systems 01/17/86 (86-04)  |
| 85209 | Measurement Control and Statistics 04/10/85 (85-15)   |
| 85211 | Physical Inventory 01/17/86 (86-04)   |
| 85303 | Material Control and Accounting Management Structure and Personnel Training and Qualification 08/10/16 (16-020) |
| 85305 | Item Monitoring 11/15/16 (16-030)   |
| 85307 | Process Monitoring 11/15/16 (16-030)  |
| 85309 | Measurement Systems and Control 10/20/10 (10-021)   |
| 85311 | Physical Inventory Program 11/15/10 (10-023)  |
| 85313 | Alarm Resolution Program 11/15/16 (16-030)  |
| 85315 | Internal Control 12/21/2010 (10-027)  |
| 85401 | Management Structure 11/15/16 (16-030)  |
| 85402 | Measurement Program 10/20/10 (10-021)   |
| 85403 | Measurement Control Program 10/20/10 (10-021)   |
| 85404 | Physical Inventory Program for Low Enriched Uranium Fuel Facilities 11/15/10 (10-023)                           |
| 85405 | Item Control 09/09/10 (10-019)  |
| 85406 | Resolution Program for Low Enriched Uranium Fuel Facilities 11/15/10 (10-023)                                   |
| 85407 | Assessment Program 11/29/10 (10-024)  |
| 85408 | Recordkeeping 11/29/10 (10-024)   |
| 85420 | Inspection of IAEA Safeguards for Inspectors at Power Reactors 06/22/88 (88-007)                                |
| 85501 | Physical Inventory Program for Uranium Enrichment Facilities 11/15/10 (10-023)                                  |
| 85502 | Detection Program for Uranium Enrichment Facilities 12/21/10 (10-027)   |

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

8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

86001 Design, Fabrication, Testing, and Maintenance of  
Transportation Packagings 01/16/08 (08-003)  
86730 Transportation of Radioactive Materials (49 CFR Parts 100-  
179 and 10 CFR Part 71) 04/17/00 (00-006)  
86740 Inspection of Transportation Activities 10/30/08 (08-030)  
86750 Solid Radioactive Waste Management and Transportation of Radioactive  
Materials 03/15/94 (94-006)

8700 Materials Safety Inspection

87102 Maintaining Effluents from Materials Facilities As Low As Is Reasonably  
Achievable (ALRA) 04/04/00 (00-005)  
87103 Inspection of Material Licensees Involved in an Incident or  
Bankruptcy Filing 11/03/00 (00-023)  
87104 Decommissioning Inspection Procedure for Materials Licensees  
10/09/19 (19-033)  
87121 Industrial Radiography Programs 12/17/14 (14-030)  
87122 Irradiator Programs 12/31/02 (02-047)  
87123 Well Logging Programs 07/02/19 (19-021)  
87124 Fixed and Portable Gauge Programs 11/25/03 (03-037)  
87125 Materials Processor/Manufacturer Programs 09/28/05 (05-027)  
87126 Industrial/Academic/Research Programs 09/28/05 (05-027)  
87127 Radiopharmacy Programs 07/01/08 (08-018)  
87128 Manufacturing and Distribution of Exempt Products 08/07/19 (19-026)  
87129 Master Materials Program 09/15/03 (03-034)  
87130 Nuclear Medicine Programs, Written Directive Not Required  
10/24/02 (02-041)  
87131 Nuclear Medicine Programs, Written Directive Required  
08/24/11 (11-014)  
87132 Brachytherapy Programs 02/26/15 (15-003)  
87133 Medical Gamma Stereotactic Radiosurgery and Teletherapy  
Programs 08/24/11 (11-014)  
87134 Medical Broad-Scope Programs 08/24/11 (11-014)  
87137 10 CFR Part 37 Materials Security Programs 04/03/14 (14-009)  
87138 RESERVED for 10 CFR Part 37, "Physical Protection Of Category 1 And  
Category 2 Quantities Of Radioactive Material At Facilities With A 10 CFR  
Part 73 Physical Protection Program  
87250 Locating Missing Materials Licensees 10/29/01 (01-022)  
87654 Uranium Mill, In-Situ Uranium Recovery, and 11e.(2) Byproduct  
Material Site Decommissioning Inspection 03/19/02 (02-010)

8800 Fuel Facility Inspection

|       |  |
|-------|--|
| 88001 | On-Site Construction 04/15/94 (94-011)   |
| 88003 | Reactive Inspection for Events at Fuel Cycle Facilities<br>03/16/15 (15-004)   |
| 88004 | RESERVED for Adverse Weather Protection  |
| 88005 | Management Organization and Controls 09/05/06 (06-020)   |
| 88010 | Training 02/07/14 (14-005)   |
| 88015 | Nuclear Criticality Safety 08/11/15 (15-0215)  |
| 88020 | Operational Safety 10/01/18(18-033)  |
| 88025 | Maintenance and Surveillance Testing 01/23/14 (14-003)   |
| 88030 | Radiation Protection 03/06/14 (14-007)   |
| 88035 | Radioactive Waste Management 02/07/14 (14-005)   |
| 88045 | Effluent Control and Environmental Protection 02/07/14 (14-005)  |
| 88050 | Emergency Preparedness 03/06/14 (14-007)   |
| 88051 | Evaluation of Exercises and Drills 03/06/14 (14-007)   |
| 88054 | Fire Protection (Triennial) 03/06/14 (14-007)  |
| 88055 | Fire Protection (Annual) 10/01/18 (18-033)   |
| 88070 | Plant Modification 08/21/18 (18-027)   |
| 88071 | Configuration Management Program 03/06/14 (14-007)   |
| 88072 | Plant Modifications (Triennial) 08/21/18 (18-027)  |
| 88075 | Event Follow-up 03/16/15 (15-004)  |
| 88100 | Plant Operations 12/30/96 (96-026)   |
| 88101 | Configuration Control 12/30/96 (96-026)  |
| 88102 | Surveillance Observations 12/30/96 (96-026)  |
| 88103 | Maintenance Observations 12/30/96 (96-026)   |
| 88104 | Decommissioning Inspection Procedure for Fuel Cycle Facilities<br>10/09/19 (19-033)  |
| 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 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 (10 CFR<br>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    | Quality Assurance: Piping Relied on for Safety 05/18/05 (05-013)                             |
| 88135    | Resident Inspection Program for Category I Fuel Cycle Facilities<br>02/07/14 (14-005)        |
| 88135.02 | Resident Inspection Program Plant Status Activities 05/21/15 (15-010)                        |
| 88135.04 | Resident Inspection Program Integrated Safety Analysis Implementation<br>10/01/18 (18-033)   |
| 88135.05 | Resident Inspection Program Fire Protection (Annual/Quarterly)<br>10/01/18 (18-033)          |
| 88135.17 | Permanent Plant Modifications 01/31/14 (14-004)  |
| 88135.19 | Post Maintenance Testing 01/31/14 (14-004)   |
| 88135.22 | Surveillance Testing 01/31/14 (14-004)   |
| 88136    | Mechanical Components 7/25/07 (07-023)   |
| 88137    | Electric Cable 04/01/10 (10-010)   |
| 88138    | Electrical Components and Systems 08/08/07 (07-024)  |
| 88139    | Ventilation and Confinement Systems 08/08/07 (07-024)  |
| 88140    | Instrumentation and Controls Systems 04/01/10 (10-010)                                       |
| 88141    | Fire Prevention and Protection 08/08/07 (07-024)   |
| 88142    | Underground Fire Water Loop and Equipment Installation<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) |

## 8900 Fuel Facility and Materials Special Program

|       |  |
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| 89001 | In-Situ Leach (ISL) Facilities 09/02/97 (97-013) |
|-------|--|

## 9000 Reportable Matters and Report Reviews

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| 90001 | Construction Regulatory Response Column Inspections 10/27/10<br>(10-022)  |
| 90002 | Construction Degraded Performance Column Inspections 10/28/14<br>(14-026) |

|       |   |
|-------|---|
| 90003 | Construction Multiple/Repetitive Degraded Cornerstone Column Inspection 10/28/14 (14-026)               |
| 90502 | RESERVED for Part 52 Reportable Matters - Test Program  |
| 90700 | Feedback of Operational Experience Information at Operating Power Reactors 03/23/05 (05-008)            |
| 90712 | In-office Review of Written Reports of Non-routine Events at Power Reactor Facilities 12/31/98 (98-020) |
| 90713 | In Office Review of Periodic and Special Reports 09/17/01 (01-017)                                      |
| 90714 | Non-routine Reporting Program 09/17/01 (01-017)   |

## 9100 Title 10 Requirements

### 9200 Planned Non-Routine Activities

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| 92050 | Review of Quality Assurance for Extended Construction Delay 04/04/00 (00-005)   |
| 92700 | Onsite Follow-up of Written Reports of Non-routine Events at Power Reactor Facilities 12/31/98 (98-020)   |
| 92701 | Follow-up 03/13/07 (07-010)   |
| 92702 | Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders 01/10/08 (08-001) |
| 92703 | Follow-up of Confirmatory Action Letters 05/13/09 (09-012)  |
| 92709 | Licensee Strike Contingency Plans 05/16/19 (19-015)   |
| 92711 | Continued Implementation of Strike Plans During an Extended Strike 05/16/19 (19-015)  |
| 92712 | Resumption of Normal Operations after a Strike 05/16/19 (19-015)  |
| 92714 | RESERVED for Part 52 Follow-up  |
| 92720 | Corrective Action 09/28/98 (reactivated 07-034)   |
| 92721 | RESERVED for Part 52 Follow-up on Corrective Actions for Violations and Deviations  |
| 92722 | Follow up Inspection for Any Severity Level I or II Traditional Enforcement Violation or for Two or More Severity Level III Traditional Enforcement Violations in a 12-Month Period 08/11/09 (09-020)     |
| 92723 | Follow up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period 08/11/09 (09-020)   |
| 92901 | Follow-up - Plant Operations 09/17/01 (01-017)  |
| 92902 | Follow-up - Maintenance 09/17/01 (01-017)   |
| 92903 | Follow-up - Engineering 09/17/01 (01-017)   |
| 92904 | Follow-up - Plant Support 09/17/01 (01-017)   |

### 9300 Non-Routine Activities

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

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| 93702    | Prompt Onsite Response to Events at Operating Power Reactors 09/17/01 (01-017)  |
| 93800    | Augmented Inspection Team 04/02/19 (19-012)   |
| 93801    | Safety System Functional Inspection (SSFI) 07/25/96 (96-016)  |
| 93802    | Operational Safety Team Inspection (OSTI) 11/27/89 (89-015)   |
| 93803    | Safety Systems Outage Modifications Inspection 04/27/89 (89-008)  |
| 93804    | Risk-Based Operational Safety and Performance Inspection 01/15/92 (92-001)  |
| 93805    | Maintenance Program 08/06/93 (93-070)   |
| 93806    | Operational Readiness Assessment Team Inspections 09/29/98 (98-015)   |
| 93807    | Systems Based Instrumentation and Control Inspection 01/29/93 (93-001)  |
| 93810    | Service Water System Operational Performance Inspection (SWSOPI) 09/14/98 (98-013)  |
| 93811    | Electrical Distribution System Functional Inspection (EDSFI) 02/03/99 (99-002)  |
| 93812    | Special Inspection 04/02/19 (19-012)  |
| 93813    | RESERVED for Part 52 Operational Readiness Assessment Team Inspection   |
| 9400     | <u>Technical Activities of an Administrative Nature</u>   |
| 94301    | RESERVED for Part 52 Status of 10 CFR 52 Plant Readiness for Fuel Load  |
| 9500     | <u>Strategic Determination Actions</u>  |
| 95001    | Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area 08/24/16 (16-021)   |
| 95002    | Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area 02/09/11 (11-001)                        |
| 95003    | Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs or One Red Input 12/18/15 (15-031) |
| 95003.01 | Emergency Preparedness 01/15/09 (09-002)  |
| 95003.02 | Guidance for Conducting an Independent NRC Safety Culture Assessment) 04/01/19 (19-011)   |
| 9600     | <u>Materials Safety and Security</u>  |
| 96001    | NRC Force-on-Force Inspections at Category 1 Fuel Cycle Facilities 03/11/19 (19-010)  |
| 9700     | <u>Reserved</u>   |
| 9800     | <u>Reserved</u>   |



## 9900 Guidance<sup>2</sup>

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

### **PART** **GUIDANCE**

#### Technical Guidance

|                   |  |
|-------------------|--|
| ASME Section III  | American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III 06/16/89 (89-011)           |
| ASME Section III  | American Society of Mechanical Engineers ASME Boiler and & XI Pressure Vessel Code, Section III & XI 11/12/96 (96-022) |
| ASME Section XI   | American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section XI 12/08/86 (86-54)             |
| ASME Section XI   | American Society of Mechanical Engineers ASME, Section XI 05/12/86 (86-26)   |
| STS Sec 1.0       | Operability 05/12/86 (86-26)   |
| STS Sec 1.0       | Definitions 12/08/86 (86-54)   |
| STS Sec 3.0       | Acceptable Measurement Tolerances for Technical Specification Limits 10/01/78 (78-35)                                  |
| STS Sec 3/4.6.4   | Containment and Drywell Isolation Valves 06/09/88 (88-06)  |
| STS Sec 3.7.5     | Ultimate Heat Sink 11/25/88 (88-17)  |
| STS Sec 3/4.8.1   | TDI Diesel Generator Air Roll Tests 06/09/88 (88-06)   |
| STS Sec 4.2.8.X.X | Surveillance Requirements - 125-Volt Battery Bank 10/01/79 (79-22)   |
| STS Sec 4.5.1     | Standard Technical Specifications (BWR) 05/12/86 (86-26)   |
| STS Sec 4.8.1.1.2 | Surveillance Testing of Diesel Generator Lockout Feature 05/12/86 (86-26)  |
| STS               | Surveillance Sections - Locked or Otherwise Secured Components 10/01/77 (77-25)  |
| STS Interp        | Licensee Technical Specification Interpretations 02/03/97 (97-001)   |

#### Maintenance

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| 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

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

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

## Operations

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

## **PART**

### **10 CFR GUIDANCE**

|                |   |
|----------------|---|
| 10             | Title 10 of the Code of Federal Regulations 12/08/86 (86-54)                              |
| 10 CFR71 and   |   |
| 49 CFR171-178  | Transportation of Radioactive Material 12/01/04 (04-027)                                  |
| 50.55(e)       | Construction Deficiency Reporting 01/31/89 (89-002)                                       |
| 50.55a         | Codes and Standards 02/22/73 (73-9)   |
| 50.59          | 10 CFR 50.59, Changes, Tests, and Experiments<br>03/13/01 (01-008) [50_59.CFR]            |
| Part 50, App A | Definition of Leak-Before-Break Analysis 09/26/96 (96-020)                                |
| Part 50        | Appendix J, Containment Integrated Leak Rate Testing<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

END