

NRC INSPECTION MANUAL

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| 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 Rev 1 | Review of Aging Management Programs at Independent Spent Fuel Installations 02/20/20 (20-010) |
| 2691 | RESERVED for Technical Basis for the Independent Spent Fuel Storage Installation Inspection Program |
| 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) |

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| 2700 | <u>Licensee Contractor and Vendor Inspection Program</u> |
| 2800 | <u>Materials Inspection Program</u> |
| 2800 | Materials Inspection Program 03/02/20 (20-012) |
| 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 Rev 3 226 Sources 12/20/19 (19-041) |
| 2801 | Uranium Mill 11e.(2) Byproduct Material Disposal Site and Facility Inspection Program 08/25/00 (00-014) |
| 2810 | Master Materials License Oversight and Inspection Program 10/11/12 (12-023) |
| 2815 | Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators 03/27/01 (01-010) |
| 2882 | Transfer of NRC License Files to Agreement State(s) 12/03/01 (01-029) |
| 2900 | <u>Performance Appraisal Program</u> |
| 2901 | Team Inspections 08/24/01 (01-016) |
| 2920 | Construction Appraisal Team Inspection Program 03/29/85 (85-11) |
| 3000 | <u>Management Meetings</u> |
| 30800 | Initial Management Meeting - Materials Licensees 10/01/76 (76-26) |
| 3100 | <u>Reserved</u> |
| 3200 | <u>Reserved</u> |
| 3300 | <u>Reserved</u> |
| 3400 | <u>Reserved</u> |

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 03/23/20 (20-017)
- 35101 QA Program Implementation Inspection for Operational Programs 07/08/16 (16-015)
- 35701 Quality Assurance Program Review 09/17/01 (01-017)
- 35710 Quality Assurance Inspection of Software Used in Nuclear Applications 01/30/18 (18-002)
- 35962 RESERVED for Part 52 QA Program Evaluation of Engineering Service Organization

3600 Organization and Administration

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

3700 Design, Design Changes, Modifications

- 37060 Inspections under the 10CFR Part 50.69 Special Program 09/14/11 (11-016)
- 37700 Design Changes, and Modifications 09/17/01 (01-017)
- 37801 Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors 08/11/97 (97-012)
- 37803 RESERVED
- 37804 Aircraft Impact Assessment Inspection 03/23/20 (20-017)
- 37805 Engineering Design Verification Inspections 04/08/20 (20-020)

3800 Procurement

3900 Records

39701 Records Program 09/17/01 (01-017)

4000 Review and Audit

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 Managing Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Closure 05/29/20 (20-025)

40801 Self-Assessment, Auditing, and Corrective Action at Permanently Shutdown Reactors 08/11/97 (97-012)

4100 Training

41500 Training and Qualification Effectiveness 06/13/95 (95-007)

41501 Review of Training and Qualification Programs
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41502 Nuclear Power Plant Simulation Facilities 10/16/12 (12-024)

4200 Procedures

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 Vendor Procedures

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43003 Reactive Inspections of Nuclear Vendors 04/08/20 (20-020)

43004 Inspection of Commercial-Grade Dedication Programs 01/27/17 (17-002)

43005 NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 10/08/15 (15-019)

43006 Inspection of the Implementation of Mitigation Strategies Orders Regarding the Use of National Response Centers 09/30/16 (16-025)

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| | 45052 | Review of Geotechnical and Site Characterization Activities 10/03/07 (07-030) |
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| 4700 | <u>Containment (Post-Tensioning)</u> | |
| 4800 | <u>Structural Steel and Supports</u> | |
| 4900 | <u>Piping</u> | |
| 5000 | <u>Mechanical Components and Equipment</u> | |
| | 50001 | Steam Generator Replacement Inspection 09/12/17 (17-018) |
| | 50002 | Steam Generators 12/31/96 (96-024) |
| | 50003 | Pressurizer Replacement Inspection 09/12/17 (17-018) |
| | 50054 | Reactor Vessel Material Surveillance Program 12/04/08 (08-034) |
| | 50056 | RESERVED for Reactor Vessel Material Surveillance Program |
| 5100 | <u>Electrical Components and Systems</u> | |
| | 51080 | Part 52, Environmental Qualifications (EQ) Program for Electrical and Mechanical Equipment 06/26/17 (17-013) |
| 5200 | <u>Instrumentation Systems and Components</u> | |
| | 52003 | Digital Instrumentation and Control Modification Inspection 10/31/08 (08-031) |
| 5300 | <u>Containment Penetrations</u> | |
| 5400 | <u>Cleanliness</u> | |
| 5500 | <u>Welding</u> | |
| | 55050 | Nuclear Welding General Inspection Procedure 06/20/83 (83-06) |
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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

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60710 Refueling Activities 07/27/95 (95-009)
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60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors
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60845 Operation of Intra-Unit Fuel Transfer Canister and Cask System
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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
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60854.1 Preoperational Testing of Independent Spent Fuel Storage
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60855 Operation of an Independent Spent Fuel Storage Installation
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60855.1 Operation of an Independent Spent Fuel Storage Installation at
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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
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60857 Review of 10 CFR 72.48 Evaluations 10/24/07 (07-033)
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60859 RESERVED for Welding Verification Checklist for Transportation and ISFSI
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| 60860 | RESERVED for Nondestructive Examination Procedure Visual Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components |
| 60861 | RESERVED for Nondestructive Examination Procedure Liquid Penetrant Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components |
| 60862 | RESERVED for Nondestructive Examination Procedure Magnetic Particle Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components |
| 60863 | RESERVED for Nondestructive Examination Procedure Ultrasonic Examination Procedure Review/Work Observation/Record Review |
| 60864 | RESERVED for Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components |
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| 61706 | Core Thermal Power Evaluation 07/14/86 (86-36) |
| 61707 | Determination of Reactor Shutdown Margin 10/11/85 (85-31) |
| 61708 | Isothermal and Moderator Temperature Coefficient Determinations 10/11/85 (85-31) |
| 61709 | Total Power Coefficient of Reactivity at Pressurized Water Reactors 07/14/86 (86-36) |
| 61710 | Control Rod Worth Measurements (PWR) 10/11/85 (85-31) |
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| 61720 | Containment Local Leak Rate Testing 10/03/85 (85-30) |
| 61726 | Surveillance Observations 06/24/98 (98-010) |
| 61728 | Independent Measurement of RCS Leak Rates for a PWR 01/01/84 (84-02) |
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| 62003 | Inspection of Steel and Concrete Containments at Nuclear Power Plants 06/11/97 (97-008) |
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| 62708 | Motor-Operated Valve Capability 07/16/20 (20-033) |
| 62709 | Configuration Risk Assessment and Risk Management Process 12/28/00 (00-029) |
| 62710 | Power-Operated Gate Valve Pressure Locking and Thermal Binding 04/30/10 (10-013) |
| 62711 | RESERVED for Operational Reliability Assurance Process |
| 62712 | Part 52, Maintenance Rule 08/13/13 (13-017) |
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- 64704 Fire Protection Program 06/24/98 (98-010)
- 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)
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- 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)
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- 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)
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- 65001.13 Inspection of ITAAC-Related Installation of Load Handling Equipment and Fuel Racks 08/05/09 (09-019)
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- 65001.18 Inspection of Emergency Planning ITAAC 10/30/08 (08-030)
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| 65001.22 | Inspection of Digital Instrumentation and Control (DI&C) System/Software Design Acceptance Criteria (DAC) – Related ITAAC 12/19/11 (11-041) |
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| 65001.B | Inspection of the ITAAC-Related Welding Program 11/04/19 (19-034) |
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| 65001.D | Inspection of the ITAAC-Related Operational Testing Program 05/09/14 (14-011) |
| 65001.E | Inspection of the ITAAC-Related Qualification Program 06/20/14 (14-013) |
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| 6900 | <u>Non-Power Reactor Inspection</u> |
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| 69002 | Class III Research and Test Reactors 02/03/04 (04-004) |
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| 69004 | Class I Research and Test Reactor Effluent and Environmental Monitoring 02/03/047 (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) |
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| 69011 | Class I Research and Test Reactor Emergency Preparedness 02/03/04 (04-004) |
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- 70367 Inspection of Pre-operational Test Program 01/15/14 (14-001)
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- 70369 RESERVED for Part 52 Containment Leak Rate Testing
- 70371 RESERVED for Part 52 Testing of Pipe Support and Restraint System
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- 71004 Power Uprate 05/15/17 (17-010)
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- 71111 Reactor Safety-Initiating Events, Mitigating Systems, Barrier Integrity 10/28/11 (11-025)
- 71111.01 Adverse Weather Protection 12/20/19 (19-041)
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| 71111.21N.05 | Fire Protection Team Inspection (FPTI) 06/12/19 (19-019) |
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7200 Startup Testing

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- 72501 RESERVED for Part 52 Initial Fuel Load Procedure Review
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7300 In-service Inspection

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- 73753 In-service Inspection 06/24/98 (98-010)
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- 73756 In-service Testing of Pumps and Valves 07/27/95 (95-009)
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7500 Reserved

7600 Reserved

7700 Reserved

7800 High Level Waste

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7900 Water Chemistry

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- 79504 RESERVED for Part 52 Plant systems Affecting Plant Water Chem.
- 79702 Control and monitoring of Radiological Source Term 04/17/00 (00-006)

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

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| 83311 | RESERVED for Part 52, Radiation Protection During Construction |
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| 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 03/04/20 (20-013) |
| 83532 | RESERVED for Part 52 Radiation Protection, Plant Chemistry, and Radwaste Training |
| 83533 | Part 52 External Occupational Exposure Control and Personal Dosimetry 03/04/20 (20-013) |
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| 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) |
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| 83728 | Maintaining Occupational Exposures ALARA 04/17/00 (00-006) |

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| 83746 | Part 52 Offsite Dose Calculation Manual (ODCM) 05/07/20 (20-024) |
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| 84101 | Radioactive Waste Management 12/30/91 (91-022) |
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| 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 04/30/20 (20-022) |
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| 85103 | Material Control and Accounting at Decommissioning Power Reactors 07/03/18 (18-019) |
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| 88121 | RESERVED for Draft Operational Readiness Reviews for Uranium Deconversion Facilities |
| 88130 | Resident Inspection Program for On-Site Construction Activities at the Mixed Oxide Fuel Fabrication Facility 03/02/16 (16-009) |
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² [XXXX.XX] attached to each document in Part 9900, is the file name for that document.

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10 CFR GUIDANCE

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| 10 | Title 10 of the Code of Federal Regulations 12/08/86 (86-54) |
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| 50.59 | 10 CFR 50.59, Changes, Tests, and Experiments 03/13/01 (01-008) [50_59.CFR] |
| Part 50, App A Part 50 | Definition of Leak-Before-Break Analysis 09/26/96 (96-020) Appendix J, Containment Integrated Leak Rate Testing 12/08/86 (86-54) |
| 70.51 | Material Balance, Inventory, and Records Requirements 12/19/74 (74-11) |
| 70.52 | Report of Accidental Criticality or Loss of Special Nuclear Material 11/15/74 (74-010) |

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