**NRC INSPECTION MANUAL** DIRS

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2515/139 Inspection of Licensee’s Implementation of Generic Letter 96-01 - Testing of Safety Related Logic Circuits 07/23/98 (reactivated 09-015)

2515/140 Periodic Verification of Design-Basis Capability of Safety-Related Motor-Operated Valves (GL 96-05) 09/29/98 (reactivated 09-015)

2515/142 Draindown During Shutdown and Common-Mode Failure (NRC Generic Letter 98-02) 06/18/99 (reactivated 09-015)

2515/145 Circumferential Cracking of Reactor Pressure Vessel Head Penetration Nozzles (NRC Bulletin 2001-01) 09/20/01

2515/147 Expanded Table-Top Drill Evaluation 08/14/02 (02-030)

(Note this TI contains safeguards material)

2515/148 Inspection of Nuclear Reactor Safeguards - Interim Compensatory

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2515/150 Reactor Pressure Vessel Head and Vessel Head Penetration

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2515/151 Expanded Pilot Force-on-Force Exercise Evaluation 02/06/03 (03-002)

2515/152, Reactor Pressure Vessel Lower Head Penetration Nozzles

(NRC Rev. 1 Bulletin 2003-02) 11/15/03 (reactivated 09-015)

2515/153, Reactor Containment Sump Blockage (NRC Bulletin 2003-01)

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2515/155 Mark I and Mark II Containment Vulnerabilities

12/12/03 (03-040) (Note: TI withheld from public disclosure since

it contains sensitive security information)

2515/158 Functional Review of Low Margin/Risk Significant Components and

Human Actions 06/14/04 (04-017)

Affecting Safety-Related Equipment 07/29/04 (04-021)

2515/160 Pressurizer Penetration Nozzles and Steam Space Piping Connections in U.S. Pressurized Water Reactors (NRC Bulletin 2004-01) 10/06/04 (reactivated 09-015)

2515/162 Safeguards Information 04/13/05 (05-010)

2515/164 Inspection of Nuclear Reactor Safeguards Interim Compensatory Measures - Section B.5.b of the February 25, 2002, Order [Safeguards Information] 06/28/05 (05-017)

2515/165 Operational Readiness of Offsite Power and Impact on Plant Risk 03/03/06 (reactivated 09-025)

2515/166 Pressurized Water Reactor Containment Sump Blockage [NRC

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2515/168 Closeout Inspection of Nuclear Reactor Safeguards Interim Compensatory Measures - Section B.5.b of the February 25, 2002, Orders. [Safeguards Information] 05/19/06 (06-012)

2515/171 Verification of Site Specific Implementation of B.5.b Phase 2 & 3

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2515/172 Reactor Coolant System Dissimilar Metal Butt Welds

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2515/173 Review of the Implementation of the Industry Ground Water

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2515/174 Hydrogen Igniter Backup Power Verification 02/12/08 (08-007)

2515/175 Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review 06/05/08 (08-017)

2515/176 Emergency Diesel Generator Technical Specification Surveillance Requirements Regarding Endurance and Margin Testing 05/16/08 08-015

2515/177 Managing Gas Accumulation in Emergency Core Cooling,Decay

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2515/178 Risk Management Technical Specifications Initiative 5b Surveillance Frequency Control Program 05/15/09 (09-013)

2515/179 Verification of Licensee Responses To NRC Requirement

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2515/181 Validate the Effectiveness of the Regulatory Infrastructure Related to Fire-Induced Circuit Failures and Operator Manual Actions

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2515/182 Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks 11/17/11 (11-036)

2515/185 Followup to the Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative 12/19/11 (11-041)

2515/186 Inspection of Procedures and Processes for Responding to Potential Aircraft Threats 08/30/12 (12-019)

2515/187 Inspection of Near-Term Task Force Recommendation 2.3

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2515/188 Inspection of Near-Term Task Force Recommendation 2.3

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2515/189 Reserved for Snubbers

2515/190 Reserved for Inspection of Near-Term Task Force Recommendation 9.3 – Communication Capabilities

2516 Policy and Guidance for the License Renewal Inspection Programs 02/18/05 (05-006)

2516/001 Review of License Renewal Activities 03/30/11 (11-004)

2517 Watts Bar Unit 2 Construction Inspection Program 08/14/12 (12-017)

2518 Reserved for Construction Inspection Program: Advanced Reactors, Pre Construction Permit (CP)

2519 Reserved for Construction Significance Determination Process

2519P Construction Significance Determination Process – Pilot

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2522 Reserved for Construction Reactor Oversight Program Self-Assessment Process

2523 Application of Operating Experience in the Reactor Oversight Process 11/16/11 (11-035)

2530 Integrated Design Inspection Program 04/24/85 (reactivated 10-006)

2535 Design Verification Programs 03/24/89 (reactivated 10-006)

2545 Research and Test Reactor Inspection Program 06/23/04 (04-018)

2561 Decommissioning Power Reactor Inspection Program

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2561/003 Re-Examination of Year 2000 (Y2K) Program Activities at Selected Decommissioning Reactors 11/30/99 (99-019)

2561/004 Safeguards and Emergency Preparedness Inspection of Interim Compensatory Measures at Decommissioning Power Reactors

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2600 Fuel Cycle Facility Inspection Program

2600 Fuel Cycle Facility Operational Safety and Safeguards Inspection Program 01/27/10 (10-003)

2600, App A Guidance For Conducting Fuel Cycle Inspections 08/15/07 (07-025)

2600, App B NRC Core Inspection Requirements, Tables 1 and 2 11/07/11 (11-028)

2600, App C Fuel Cycle Resident Inspection Program 04/27/10 (10-012)

2600, App D Fuel Cycle Facility Inspection Planning 03/21/08 (08-011)

2600/014 Inspection Guidance for Applying Safety Culture Components Within the Inspection and Enforcement Program for Fuel Cycle Facilities

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2600/015 Reserved for Beyond Safety Basis Events Due to Natural Phenomena at Fuel Cycle Facilities

2601 Team Assessments of Fuel Cycle and Materials Licensees

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2602 Decommissioning Oversight and Inspection Program for Fuel

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2603 Reserved for Fuel Cycle Facility Construction Inspection Program Assessment

2604 Licensee Performance Review 06/28/02 (02-024)

2606 Reserved for Assessment of the Change in Risk Resulting From a Non-Compliance at a Fuel Cycle Facility

2620 On-Site Construction Reviews of Remedial Action at Inactive Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation

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2630 Mixed Oxide Fuel Fabrication Facility Construction Inspection Program 05/18/05 (05-0013)

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)

2681 Physical Protection and Transport of SNM and Irradiated Fuel

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2682 Technical Assistance for Safeguards MC&A Inspections at

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2683 MC&A Safeguards Inspection of Fuel Facilities 07/17/12 (12-015)

2689/009 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)

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)

2690/008 Inspection of Additional Security Measures for Dry Cask Storage at Independent Spent Fuel Storage Installation(s) Located Within the Protected Area of an Operating Reactor Facility 10-018 (09/02/10)

(Note: This TI contains safeguards material.)

2690/009 Inspection of Additional Security Measures for Dry Cask Storage at Independent Spent Fuel Storage Installation(s) at an Operating Reactor Facility on the Owner Controlled Area Outside of the Reactor Protected Area 10-018 (09/02/10)

(Note: This TI contains safeguards material.)

2960/010 Inspection of Safeguards Compensatory Measures for Dry Cask Storage at Independent Spent Fuel Storage Installation(s) Not Co-Located at an Operating Reactor Facility 10-018 (09/02/10)

(Note: This TI contains safeguards material.)

2694 USEC Inc. Gas Centrifuge Facility Construction and Pre-operational Readiness Review Inspection Programs 05/16/07 (07-016)

2696 Louisiana Energy Services Gas Centrifuge Facility Construction and Pre-Operational Readiness Review Inspection Programs 10/19/06 (06-028)

2700 Licensee Contractor and Vendor Inspection Program

2700 Vendor Inspection Program (VIP) 10/29/90 (90-013)

2800 Materials Inspection Program

2800 Materials Inspection Program 11/15/10 (10-023)

2800/030 Verification of the Status of Devices Authorized For Use

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2800/032 Follow-up - Materials Safeguard Advisory 10/31/01 (01-023)

2800/036 Inspection of Manufacturing and Distribution Licensees

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2800/037 Safety Procedures for Panoramic Irradiators 07/14/05 (05-019)

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2800/038 Inspection of the Implementation of Increased Controls for Licensees Authorized to Possess Risk Significant Radioactive Material 03/30/06

(06-008)

2800/039 Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in the National Source Tracking System Pursuant to Title 10 Code of Federal Regulations, Part 20.2207 (10 CFR 20.2207) 04/09/09 (09-011)

2800/040 Material Control and Accounting at Nuclear Power Plants and Wet Storage Sites 03/07/11 (11-002)

2801 Uranium Mill 11e.(2) Byproduct Material Disposal Site and Facility Inspection Program 08/25/00 (00-014)

2810 Master Materials License Inspection Program

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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)

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2900 Performance Appraisal Program

2901 Team Inspections 08/24/01 (01-016)

2920 Construction Appraisal Team Inspection Program 03/29/85 (85-11)

3000 Management Meetings

30050 Construction Permit Corporate Management Meeting 04/01/80 (reactivated 07-034)

30703 Management Meetings ‑ Entrance and Exit Interviews 01/01/82 (reactivated 08-008)

30800 Initial Management Meeting - Materials Licensees 10/01/76 (76-26)

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3200 Reserved

3300 Reserved

1. Reserved

3500 Quality Assurance

35002 Early Site Permit Pre-Docketing Quality Assurance Controls

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35004 Pre-Docketing Early Site Permit Quality Assurance Controls

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35005 Pre-Application Quality Assurance Program Audit 10/03/07 (07-030)

35006 Post-Docketing Early Site Permit Quality Assurance Controls

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35007, Quality Assurance Program Implementation During Construction and Pre-Construction Activities 12/13/10 (10-026)

35012 Early Site Permit Quality Assurance Controls Assessment and

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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)

35060 Licensee Management of QA Activities 04/01/83 (reactivated 07-032)

35061 In-Depth QA Inspection of Performance 11/19/85 (reactivated 07-034)

35065 Procurement, Receiving, and Storage 04/01/83 (Reactivated 07-032)

35101 QA Program Implementation Inspection for Operational Programs 10/03/07 (07-030)

35301 Preoperational Testing - Quality Assurance 08/06/03 (03-028)

35501 QA for the Startup Test Program 01/20/84 (84-04)

35701 Quality Assurance Program Review 09/17/01 (01-017)

35750 QA Program Measuring and Test Equipment 04/14/92

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35960 QA Program Evaluation of Engineering Organization 10/01/82 (reactivated 07-034)

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 02/13/12 (12-002)

36100.01 Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance During Construction 02/13/12 (12-002)

36301 Operational Staffing 07/01/77 (reactivated 08-032)

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

37002 Construction Refurbishment Process - Watts Bar Unit 2 02/05/10 (10-005)

37051 Verification of As-Builts 12/04/87 (reactivated 07-032)

37055 Onsite Design Activities 04/01/83 (reactivated 07-032)

37060 Inspections under the 10CFR Part 50.69 Special Program

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37301 Comparison of As-Built Plant to FSAR Description 03/22/85

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37700 Design Changes, and Modifications 09/17/01 (01-017)

37801 Safety Reviews, Design Changes, and Modifications at

Permanently Shutdown Reactors 08/11/97 (97-012)

37803 Reserved

37804 Aircraft Impact Assessment Inspection 02/09/12 (12-001)

37805 Engineering Design Verification Inspections 04/25/11 (11-007)

3800 Procurement

38703 Commercial Grade Dedication 04/08/96 (96-007)

3900 Records

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

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40001 Resolution of Employee Concerns 06/03/97 (97-006)

40002 Inspections to Review Allegations 06/28/02 (02-024)

40100 Independent Safety Culture Assessment Followup 04/05/11 (11-005)

40504 Part 52, Identification and Resolution of Construction Problems

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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 03/17/10 (10-009)

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

4100 Training

41301 Pre‑Licensing Review of Training and Qualification Programs 02/18/87 (reactivated 08-032)

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

41501 Part 52, Review of Training and Qualification Programs

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41502 Reserved for Nuclear Power Plant Simulation Facilities

4200 Procedures

42001 Emergency Operating Procedures 06/28/91 (91-009)

42051 Fire Prevention and Protection 10/01/77 (reactivated 08-004)

42401 Part 52, Plant Procedures10/27/10 (10-022)

42453 Part 52, Operating Procedures Inspection 08/19/08 (08-024)

42454 Part 52, Emergency Procedures 07/29/08 (08-021)

42700 Plant Procedures 11/15/95 (95-015)

4300 Vendor Procedures

43001 Reactive Inspection of Nuclear Vendors 10/11/94 (94-018)

43002 Routine Inspections of Nuclear Vendors 04/25/11 (11-007)

43003 Reactive Inspections of Nuclear Vendors 04/25/11 (11-007)

43004 Inspection of Commercial-Grade Dedication Programs 04/25/11 (11-007)

43005 NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 04/25/11 (11-007)

4400 Reserved

4500 Geotechnical/Foundation

45051 Geotechnical/Foundation Activities Procedure Review 05/29/03 (03-018)

45051.A Geotechnical/Foundation Activities Procedure Review 03/23/84 (reactivated 08-004)

45052 Review of Geotechnical and Site Characterization Activities

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45053 Geotechnical/Foundation Activities Work Observation 03/23/84 (reactivated 07-034)

45055 Geotechnical/Foundation Activities Record Review 03/23/84

(reactivated 07-034)

4600 Structural Concrete

46051 Structural Concrete Procedure Review 07/01/83 (reactivated 07-034)

46053 Structural Concrete Work Observation 07/01/83 (reactivated 07-034)

46055 Structural Concrete Record Review 07/01/83 (reactivated 07-034)

46061 Structural Masonry Construction 12/17/86 (reactivated 07-034)

46071 Concrete Expansion Anchors 12/17/86 (reactivated 07-034)

4700 Containment (Post-Tensioning)

1. Structural Steel and Supports

48051 Structural Steel and Supports Procedure Review 12/17/86

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48053 Structural Steel and Supports Work Observation 12/17/86

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48055 Structural Steel and Supports Record Review 07/01/83

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4900 Piping

49001 Inspection of Erosion/Corrosion Monitoring Programs

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49051 Reactor Coolant Pressure Boundary Piping QA Review 08/16/82 (reactivated 07-032)

49053 Reactor Coolant Pressure Boundary Piping – Work Observation 11/19/85 (reactivated 07-032)

49055 Reactor Coolant Pressure Boundary Piping Record Review 08/16/82 (reactivated 07-034)

49061 Safety-Related Piping 10/01/82 (reactivated 07-034)

49063 Piping – Work Observation 11/19/85 (reactivated 07-034)

49065 Safety-Related Piping-Records Review 10/01/82

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5000 Mechanical Components and Equipment

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50003 Pressurizer Replacement Inspection 07/07/05 (05-018)

50051 Reactor Vessels and Internals QA Review 08/16/82 (reactivated 07-034)

50053 Reactor Vessel and Internals Work Observation 08/16/82

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50054 Reactor Vessel Material Surveillance Program 12/04/08 (08-034)

50055 Reactor Vessel and Internals Record Review 08/16/82

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50054 Reserved for Reactor Vessel Material Surveillance Program

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50075 Safety Related Components – Records Review 04/01/83

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50090 Pipe Support and Restraint Systems 08/06/03 (03-028)

50095 Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)

50100 Heating, Ventilating, and Air Conditioning Systems 08/06/03 (03-028)

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51051 Electrical Components and Systems – Procedure Review 03/30/84 (reactivated 07-034)

51053 Electrical Components and systems - Work Observation

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51055 Electrical Components and Systems - Record Review 08/06/03 (03-028)

51061 Electrical Cable - Procedure Review 08/06/03 (03-028)

51063 Electric Cable – Work Observation 11/19/85 (reactivated 07-034)

51065 Electric Cable – Record Review 03/30/84 (reactivated 07-034)

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52051 Instrument Components and Systems – Procedure Review 03/30/84 (reactivated 07-034)

52053 Instrument Components and Systems – Work Observation 03/30/84 (reactivated 07-034)

52055 Instrument Components and Systems – Record Review 03/30/84 (reactivated 07-034)

1. Containment Penetrations

53051 Containment Penetrations (Mechanical) Procedure Review 01/27/84 (reactivated 07-034)

53053 Containment Penetrations (Mechanical) Work Observation 01/27/84 (reactivated 07-034)

53055 Containment Penetrations (Mechanical) Record Review 01/17/84 (reactivated 07-034)

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5500 Welding

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55093 Reactor Vessels Internals (Welding) Observation of Welding and Associated Activities 07/01/7 (reactivated 07-034)

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

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5700 Nondestructive Examination, Destructive Examination and Fabrication Testing

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57060 Liquid Penetrant Testing Examination 03/09/99 (99-003)

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57080 Ultrasonic Testing Examination 03/09/99 (99-003)

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5800 Special Processes

5900 Reserve Shutdown System

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60705 Preparation for Refueling 07/27/95 (95-009)

60710 Refueling Activities 07/27/95 (95-009)

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)

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60854 Preoperational Testing of an Independent Spent Fuel Storage Installation 01/16/08 (08-003)

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)

60858 Away-From-Reactor ISFSI Inspection Guidance 05/03/07 (07-015)

60859 Reserved for Welding Verification Checklist for Transportation and ISFSI Components

60860 Reserved for Nondestructive Examination Procedure Visual Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components

60861 Reserved for Nondestructive Examination Procedure Liquid Penetrant Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components

60862 Reserved for Nondestructive Examination Procedure Magnetic Particle Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components

60863 Reserved for Nondestructive Examination Procedure Ultrasonic Examination Procedure Review/Work Observation/Record Review

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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)

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61728 Independent Measurement of RCS Leak Rates for a PWR

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6200 Maintenance

62002 Inspection of Structures, Passive Components, and Civil

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62003 Inspection of Steel and Concrete Containments at Nuclear

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62709 Configuration Risk Assessment and Risk Management Process

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62710 Power-Operated Gate Valve Pressure Locking and Thermal Binding 04/30/10 (10-013)

62711 Reserved for Operational Reliability Assurance Process

62712 Reserved for Part 52, Maintenance Rule

62801 Maintenance and Surveillance at Permanently Shutdown

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6400 Fire Prevention/Protection

64051 Procedures – Fire Prevention/Protection 07/01/79

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64053 Fire Loop Installation 07/01/79 (reactivated 07-034)

64100 Postfire Safe Shutdown, Emergency Lighting and Oil Collection Capability at Operating and Near-Term Operating Reactor Facilities 03/16/87 (reactivated 10-009)

64102 Reserved for Part 52 Post fire Safe Shutdown, Emergency Lighting and Oil Collection Capabilities

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64705 Part 52, Fire Protection Operational Program 10/03/07 (07-030)

6500 10 CFR Part 52 ITAAC Inspections

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65001.A ITAAC Attributes for As-Built Inspection 10/03/07 (07-030)

65001.B Inspection of the ITAAC-Related Welding Program 08/19/08 (08-024)

65001.C Inspection of the ITAAC-Related Construction Test Program

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65001.F Inspection of the ITAAC-Related Design and Fabrication Requirements 08/19/08 (08-024)

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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 04/18/08 (08-012)

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65001.06 Inspection of ITAAC-Related Installation o Mechanical Components 04/18/08 (08-012)

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)

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1. 1The date and numbers in parentheses to the right of the chapter/inspection procedure title are the issue date and the change notice number under which the title was issued. [↑](#footnote-ref-1)
2. 2 [XXXX.XX] attached to each document in Part 9900, is the file name for that document. [↑](#footnote-ref-2)