

# NRC INSPECTION MANUAL

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## TABLE OF CONTENTS

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Table of Contents Current through Change Notice 11-014 issued 08/24/11

### PART

#### CHAPTER

### 0000 NRC Inspection Manual<sup>1</sup>

0040 Preparing, Revising, and Issuing Documents for the NRC  
Inspection Manual 06/02/11 (11-009)

### 0100 Program Responsibilities

0102 Oversight and Objectivity of Inspectors and Examiners  
at Reactor Facilities 08/22/05 (05-023)

0111 Monitoring Activities for the DOE West Valley  
Demonstration Project 03/04/02 (02-006)

### 0200 Program Management Reports

### 0300 Inspection Policy

0300 Announced and Unannounced Inspections 03/24/94 (94-010)

0301 Coordination of NRC Visits to Commercial Reactor Sites  
08/24/01 (01-016)

0305 Operating Reactor Assessment Program 07/06/11 (11-011)

0306 Information Technology Support for the Reactor Oversight  
Process 12/04/08 (CN 08-034)

0307 Reactor Oversight Process Self-Assessment Program  
03/23/09 (09-010)

0307 App A Reactor Oversight Process Self-Assessment Metrics 03/23/09  
(09-010)

0307 App B ROP Realignment Process 04/09/09 (09-011)

0308 Reactor Oversight Process (ROP) Basis Document  
11/08/07 (07-035)

0308, Att 1 Technical Basis for Performance Indicators  
11/08/07 (07-035)

0308, Att 2 Technical Basis for Inspection Program

---

<sup>1</sup>The 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.

PART

CHAPTER

|                    |   |
|--------------------|---|
|                    | 10/16/06 (06-027)   |
| 0308, Att 3        | Technical Basis for Significance Determination Process<br>10/16/06 (06-027)   |
| 0308, Att 3, App A | Technical Basis for At Power Significance Determination<br>11/08/07 (07-035)  |
| 0308, Att 3, App B | Technical Basis for Emergency Preparedness Significance<br>Determination Process 07/28/05 (05-022)  |
| 0308, Att 3, App C | Technical Basis for Occupational Radiation Safety<br>Significance Determination Process 07/28/05 (05-022)   |
| 0308, Att 3, App D | Technical Basis for Public Radiation Safety<br>Significance Determination Process 07/27/04 (04-020)   |
| 0308, Att 3, App F | Technical Basis for Fire Protection Significance<br>Determination Process [IMC 0609, Appendix F] At Power<br>Operations 02/28/05 (05-007)   |
| 0308, Att 3, App G | Technical Basis for Shutdown Operations Significance<br>Determination Process 02/28/05 (05-007)   |
| 0308, Att 3, App H | Technical Basis for Containment Integrity Significance<br>Determination Process 05/06/04 (04-010)   |
| 0308, Att 3, App I | Technical Basis for Operator Requalification Human<br>Performance Significance Determination Process<br>07/28/05 (05-022)   |
| 0308, Att 3, App J | Technical Basis for Steam Generator Tube Integrity Findings<br>Significance Determination Process 07/06/11 (11-011)   |
| 0308, Att 3, App K | Technical Basis for Maintenance Risk Assessment and Risk<br>Management SDP 05/19/05 (05-014)  |
| 0308, Att 4        | Technical Basis for Assessment 07/28/05 (05-022)  |
| 0308, Att 5        | Technical Basis for Enforcement 10/16/06 (06-027)   |
| 0308, Att 6        | Basis Document for the Security Cornerstone of the Reactor<br>Oversight Process 09/08/09 (09-021)   |
| 0309               | Reactive Inspection Decision Basis for Reactors 02/02/10 (10-004)   |
| 0310               | Components within the Cross-Cutting Areas 2/23/10 (10-006)  |
| 0312               | Technical Assistance for Radiation Safety Inspections at Nuclear<br>Fuel Cycle Facilities and Materials Licensees' Sites<br>06/06/02 (02-023)   |
| 0313               | Industry Trends Program 05/29/08 (08-016)   |
| 0320               | Operating Reactor Security Assessment Program<br>04/09/09 (09-011)  |
| 0321               | Reserved for Reactor Security Construction Assessment Program   |
| 0330               | Guidance for NRC Review of Licensee Draft Documents 07/08/96<br>(96-015)  |
| 0350               | Oversight of Operating Reactor Facilities in a Shutdown Condition<br>With Performance Problems 12/15/06 (06-035)  |
| 0351               | Implementation of The Reactor Oversight Process at Reactor<br>Facilities in an Extended Shutdown Condition for Reasons Other<br>Than Significant Performance Problems 04/05/11 (11-005) |

0400 Enforcement Policy

PART

CHAPTER

0410 Reserved for Operations - Notices of Enforcement Discretion

0410 App A Reserved for NOEDs during a Pandemic

0500 Tracking Systems

0600 Documentation of Program Findings

0608 Performance Indicator Program 02/27/07 (07-007)

0609 Significance Determination Process 06/02/11 (11-009)

0609.01 Significance and Enforcement Review Panel Process  
06/08/11 (11-010)

0609.02 Process for Appealing NRC Characterization of Inspection  
Findings (SDP Appeal Process) 06/08/11 (11-010)

0609.03 Senior Reactor Analyst Support Expectations 06/02/11 (11-009)

0609.04 Phase 1 - Initial Screening and Characterization of Findings  
01/10/08 (08-002)

0609 App A Determining the Significance of Reactor Inspection Findings for At-  
Power Situations 01/10/08 (08-002)

0609 App B Emergency Preparedness Significance Determination Process  
03/06/03 (03-007)

0609 App C Occupational Radiation Safety Significance Determination  
Process 08/19/08 (08-024)

0609 App D Public Radiation Safety Significance Determination Process  
02/12/08 (08-007)

0609 App E Baseline Physical Protection Significance Determination Process  
07/21/05 (05-020)

0609 App E Part I Baseline Security Significance Determination Process for  
Power Reactors 01/27/10 (10-003)

0609 App E Part II Force-on-Force Physical Protection Significance  
Determination Process 07/21/05 (05-020)

0609 App F Fire Protection Significance Determination Process  
02/28/05 (05-007)

0609, App F, Att 1 Part 1: Fire Protection SDP Phase 1 Worksheet  
02/28/05 (05-007)

0609, App F, Att 2 Degradation Rating Guidance Specific to Various Fire  
Protection Program Elements 02/28/05 (05-007)

0609, App F, Att 3 Guidance for Identifying Fire Growth and Damage Scenarios  
02/28/05 (05-007)

0609, App F, Att 4 Fire Ignition Source Mapping Information: Fire Frequency,  
Counting Instructions, Applicable Fire Severity Characteristics,  
and Applicable Manual Fire Suppression Curves 02/28/05  
(05-007)

0609, App F, Att 5 Characterizing Non-Simple Fire Ignition Sources 02/28/05  
(05-007)

0609, App F, Att 6 Guidance for the Identification of Targets and Their Ignition

PART

CHAPTER

|                    |  |
|--------------------|--|
|                    | and Damage Criteria 02/28/05 (05-007)  |
| 0609, App F, Att 7 | Guidance for Fire Growth and Damage Time Analysis<br>02/28/05 (05-007)   |
| 0609, App F, Att 8 | Guidance for Fire Non-Suppression Probability Analysis<br>02/28/05 (05-007)  |
| 0609 App G         | Shutdown Operations Significance Determination Process<br>02/28/05 (05-007)  |
| 0609, App G, Att 1 | Shutdown Operations Significance Determination Process<br>Phase 1 Operational Checklists for Both PWRs and BWRs<br>05/25/04 (04-015) |
| 0609, App G, Att 2 | Phase 2 Significance Determination Process Template for<br>PWR during Shutdown 02/28/05 (05-007)                                     |
| 0609, App G, Att 3 | Phase 2 Significance Determination Process Template for<br>BWR during Shutdown 02/28/05 (05-007)                                     |
| 0609 App H         | Containment Integrity Significance Determination Process<br>05/06/04 (04-010)  |
| 0609 App I         | Operator Requalification Human Performance Significance<br>Determination Process [SDP] 08/22/05 (05-023)                             |
| 0609 App J         | Technical Basis for Steam Generator Tube Integrity Findings<br>07/06/11 (11-011)   |
| 0609 App K         | Maintenance Risk Assessment and Risk Management Significance<br>Determination Process 05/19/05 (05-014)                              |
| 0609 App L         | B.5.b Significance Determination Process 12/24/09 (09-032)   |
| 0609 App M         | Significance Determination Process Using Qualitative Criteria<br>12/22/06 (06-036)   |
| 0610               | Inspection Reports 05/18/04 (04-014)   |
| 0612               | Power Reactor Inspection Reports 04/30/10 (CN 10-013)  |
| 0612, Exh 1        | Standard Reactor Inspection Report 12/04/08 (CN 08-034)  |
| 0612, Exh 2        | Inspection Report Documentation Matrix 12/04/08 (CN 08-034)  |
| 0612, Exh 3        | Sample Reactor Inspection Report (temporarily suspended pending<br>revision)   |
| 0612, Exh 4        | Sample Cover Letters 05/15/09 (09-013)   |
| 0612, App A        | List of Acronyms Used in IMC 0612 12/04/08 (CN 08-034)   |
| 0612, App B        | Issue Screening 12/24/09 (CN 09-032)   |
| 0612, App C        | Documentation Guidance for Supplemental Inspections<br>02/02/09 (09-004)   |
| 0612, App D        | Guidance for Documenting Inspection Procedure 71152,<br>"Identification and Resolution of Problems" 06/22/06 (06-015)                |
| 0612, App E        | Examples of Minor Issues 08/11/09 (09-020)   |
| 0612, App F        | Examples of Cross-cutting Aspects 06/22/06 (06-015)  |
| 0613               | Documenting 10 CFR Part 52 Construction Inspections 12/02/09<br>(09-029)   |
| 0614               | Documenting 10 CFR 52 Construction Audit Activities 10/03/07 (07-<br>030)  |
| 0615               | Research and Test Reactor Inspection Reports<br>06/23/04 (04-018)  |
| 0616               | Fuel Cycle Safety and Safeguards Inspection Reports 07/29/08<br>(08-021)   |

PART

CHAPTER

|             |   |
|-------------|---|
| 0617        | Vendor and Quality Assurance Implementation Inspection Reports<br>10/29/09 (09-025)   |
| 0620        | Inspection Documents and Records 05/15/09 (09-013)  |
| 0630        | Analysis of the Impact of Noncompliance with Physical<br>Security Requirements 10/01/82 (82-09)   |
| 0700        | <u>Communications with Licensees</u>  |
| 0730        | Generic Communications Regarding Materials and Fuel Cycle<br>Issues 03/21/08 (08-011)   |
| 0800        | <u>Feedback - Improving the Regulatory Process</u>  |
| 0801        | Reactor Oversight Process Feedback Program 07/06/10 (10-015)  |
| 0802        | Reserved for the Part 52 Program  |
| 0900        | <u>Reporting of Events/Incidents</u>  |
| 0970        | Potentially Generic Questions Identified by Regional Offices<br>12/11/00 (00-024)   |
| 1000        | <u>Regional Office Program Interfaces</u>   |
| 1007        | Interfacing Activities between Regional Offices of NRC and<br>OSHA 02/11/04 (04-006)  |
| 1100        | <u>Notifications of Meetings and Conferences</u>  |
| 1120        | Preliminary Notifications 06/09/09 (09-014)   |
| 1200        | <u>Inspector Requirements</u>   |
| 1201        | Conduct of Employees 06/29/99 (99-010)  |
| 1202        | Senior Resident Inspector Site Turnover 10/31/08 (08-031)   |
| 1220        | Processing of NRC Form 241, "Report of Proposed Activities<br>In Non-Agreement States," Areas of Exclusive Federal<br>Jurisdiction and Offshore Waters, and Inspection of Agreement<br>State Licensees Operating Under 10 CFR 150.20<br>05/01/03 (03-013) |
| 1220, App I | Procedures and Guidelines for Processing NRC Form 241<br>05/01/03 (03-013)  |

PART

CHAPTER

|               |   |
|---------------|---|
| 1220, App II  | Procedures Letter to be Sent to Licensees with Procedures and Information for Filing NRC Form 241 05/01/03 (03-013) |
| 0220, App III | Inspection of Agreement State Licensees 05/01/03 (03-013)   |
| 1230          | Quality Assurance Program for Radiological Confirmatory Measurements 10/01/83 (83-12)                               |
| 1232          | Collection, Preparation, and Shipment of Independent Measurement Samples 11/18/86 (86-52)                           |
| 1240          | Unescorted Access at Power Reactors 12/01/04 (04-027)   |
| 1245          | Qualification Program for Operating Reactor Programs 11/09/09 (09-026)  |
| 1245, Att 1   | General Overview of the Inspector Training and Qualification Program 07/08/09 (09/017)                              |
| 1245, Att 2   | Inspector Competencies 10/31/06 (06-032)  |
| 1245, Att 3   | General Orientation Topics 10/31/06 (06-032)  |
| 1245, App A   | Basic-Level Training and Qualification Journal 07/08/09 (09/017)  |
| 1245, App B   | General Proficiency-Level Training and Qualification Journal 07/08/09 (09/017)                                      |
| 1245, App C1  | Reactor Operations Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)             |
| 1245, App C2  | Reactor Engineering Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)            |
| 1245, App C3  | Health Physics Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)                 |
| 1245, App C4  | Reactor Safeguards Inspector Technical Proficiency Qualification Journal 04/05/02 (02-014)                          |
| 1245, App C5  | Research and Test Reactor Inspector Technical Proficiency Qualification Journal 07/08/09 (09/017)                   |
| 1245, App C6  | Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)         |
| 1245, App C7  | Fire Protection Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)                |
| 1245, App C8  | Vendor Inspector Technical Proficiency Qualification Journal 01/10/08 (08-001)                                      |
| 1245, App C9  | Senior Reactor Analyst Training and Qualification Program 07/08/09 (09/017)   |
| 1245, App C10 | Operator Licensing (OL) Examiner Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)         |
| 1245, App C11 | Security Risk Analyst Technical Proficiency Training and Qualification Journal 04/09/09 (09-011)                    |
| 1245, App D1  | Maintaining Qualifications 07/08/09 (09/017)  |
| 1245, App D2  | Inservice Inspection Advanced-Level Training 07/08/09 (09/017)  |
| 1245, App D3  | Fire Protection Advanced-Level Training 07/08/09 (09/017)   |
| 1246          | Formal Qualification Programs in the Nuclear Material Safety and Safeguards Program Area 01/05/01 (01-002)          |
| 1246, App A   | Training Activities 01/05/01 (01-002)   |
| Sec. I        | Materials License Reviewer 01/05/01 (01-002)  |
| Sec. II       | Materials Health Physics Inspector 01/05/01 (01-002)  |
| Sec. III      | Fuel Cycle Safety Inspector 04/21/06 (04-009)   |

PART

CHAPTER

|             |   |
|-------------|---|
| Sec. IV     | Fuel Cycle Safeguards Inspector Physical Security<br>01/05/01 (01-002)  |
| Sec. V      | NMSS Headquarters Fuel Cycle Safeguards Inspector Material<br>Control and Accounting 01/05/01 (01-002)  |
| A06, Att 1  | Spent Fuel Storage and Transportation Training Requirements for<br>Project Manager and Technical Reviewer 09/24/08 (08-027)   |
| A06, Att 2  | Training Requirements for Spent Fuel Storage and Transportation<br>Inspector 09/24/08 (08-027)  |
| Sec. VII    | Fuel Cycle License Reviewer 01/05/01 (01-002)   |
| Sec. VIII   | Waste Management Inspectors and License Reviewers<br>01/05/01 (01-002)  |
| Sec. IX     | Decommissioning Inspectors 01/05/01 (01-002)  |
| Sec. X      | Decommissioning Project Managers/Technical Reviewers<br>04/14/03 (03-012)   |
| Sec. XI     | Materials Exempt Distribution License Reviewer<br>01/05/01 (01-002)   |
| Sec. XII    | Uranium Recovery Inspector 01/05/01 (01-002)  |
| Sec. XIII   | Uranium Recovery Project Manager/Technical Reviewer<br>01/05/01 (01-002)  |
| Sec. XIV    | High-Level Waste Repository Inspector 05/09/06 (05-011)   |
| Sec. XV     | High-Level Waste Repository License Technical Reviewer<br>04/14/03 (03-012)   |
| Sec. XVI    | Training Requirements for Sealed Source and Device Reviewers<br>02/11/04 (04-006)   |
| Sec. XVII   | Training Requirements for Fuel Cycle Project Managers 11/15/10<br>(10-023)  |
| 1246, App B | NRC Inspector, License Reviewer and Project<br>Manager/Technical Reviewer Training and Qualification<br>Journal 01/05/01 (01-002)   |
| Sec. I      | Materials License Reviewer 01/05/01 (01-002)  |
| Sec. II     | Materials Health Physics Inspector 01/05/01 (01-002)  |
| Sec. III    | Fuel Cycle Safety Inspector 01/05/01 (01-002)   |
| Sec. IV     | Fuel Cycle Safeguards Inspector - Physical Security<br>01/05/01 (01-002)  |
| Sec. V      | NMSS Headquarters Fuel cycle Safeguards Inspector Material<br>Control and Accounting (MC&A) 01/05/01 (01-002)   |
| B06, Att 1  | Office of Nuclear Material Safety and Safeguards Qualification<br>Journal for Spent Fuel Storage and Transportation Project Manager<br>and Technical Reviewer 09/24/08 (08-027) |
| B06, Att 2  | Office of Nuclear Material Safety and Safeguards Qualification<br>Journal for Spent Fuel Storage and Transportation Inspector<br>09/24/08 (08-027)                              |
| Sec. VII    | Fuel cycle License Reviewer 01/05/01 (01-002)   |
| Sec. VIII   | Waste Management Inspector and License Reviewer<br>01/05/01 (01-002)  |
| Sec. IX     | Decommissioning Inspector 01/05/01 (01-002)   |
| Sec. X      | Decommissioning Project Manager/Technical Reviewer<br>04/14/03 (03-012)   |

PART

CHAPTER

|              |   |
|--------------|---|
| Sec. XI      | Materials Exempt Distribution License Reviewer<br>01/05/01 (01-002)   |
| Sec. XII     | Uranium Recovery Inspector 01/05/01 (01-002)  |
| Sec. XIII    | Uranium Recovery Project Manager/Technical Reviewer<br>01/05/01 (01-002)  |
| Sec. XIV     | High-Level Waste Repository Inspector 05/09/06 (05-011)   |
| Sec. XV      | High-Level Waste Repository License Technical Reviewer<br>04/14/03 (03-012)   |
| Sec. XVI     | Technical Reviewer Qualification Journal Byproduct Material<br>Sealed Source and Device Reviewers 02/11/04 (04-006)                 |
| Sec. XVII    | Fuel Cycle Project Manager Qualification Journal 11/15/10 (10-023)  |
| 1247         | Qualification Program for Fuel Facility Inspectors in the Nuclear<br>Material Safety and Safeguards Program Area 02/18/09 (09-006)  |
| 1247, App A  | Basic-Level Training and Certification Journal Fuel Facility<br>Inspector 02/18/09 (09-006)   |
| 1247, App B  | General Proficiency-Level Training and Qualification Journal<br>02/18/09 (09-006)   |
| 1247, App C1 | Fuel Facility Operations Inspector Technical Proficiency Training<br>and Qualification Journal 02/18/09 (09-006)                    |
| 1247, App C2 | Fuel Facility Health Physics Inspector Technical Proficiency<br>Training and Qualification Journal 02/18/09 (09-006)                |
| 1247, App C3 | Fuel Facility Emergency Preparedness Inspector Technical<br>Proficiency Training and Qualification Journal 02/18/09 (09-006)        |
| 1247, App C5 | Fuel Facility Material Control & Accounting Inspector Technical<br>Proficiency Training and Qualification Journal 02/18/09 (09-006) |
| 1248         | Reserved for Qualification Programs for Federal and State<br>Materials and Environmental Management Programs                        |
| 1252         | Construction Inspector Training and Qualification Program 04/25/11<br>(11-007)  |
| 1252, App A  | Construction Inspector Basic-Level Training and Certification<br>Journal 04/25/11 (11-007)  |
| 1252, App B  | Construction Inspector General Proficiency-Level Training and<br>Qualification Journal 04/25/11 (11-007)                            |
| 1252, App C  | Construction Inspector Post Qualification Requirements, Continuing<br>and Refresher Training 04/25/11 (11-007))                     |

1300 Incident Response

|      |  |
|------|--|
| 1301 | Response to Non-Emergency Incidents Involving Radioactive<br>Material 10/20/00 (00-022)  |
| 1302 | Action Levels for Radiation Exposures and Contamination<br>Associated with Materials Events Involving Members of the Public<br>07/14/05 (05-019) |
| 1303 | Requesting Emergency Acceptance of Radioactive Material by the<br>U.S. Department of Energy 11/29/07 (07-037)                                    |
| 1304 | Reserved for Independent Split Sampling Program for Residual<br>Radioactivity  |



PART

CHAPTER

|            |  |
|------------|--|
| 1330       | Response to Transportation Accidents Involving Radioactive Materials 10/06/04 (04-025)                             |
| 1360       | Use of Physician and Scientific Consultants in the Medical Consultant Program 11/02/06 (06-033)                    |
| 1400       | <u>Reserved</u>  |
| 1415       | State Contracts for Environmental Monitoring 06/28/91 (91-009)   |
| 1500       | <u>Reserved</u>  |
| 1600       | <u>Emergency Preparedness</u>  |
| 1601       | Communication Protocol for Assessing Offsite Emergency Preparedness Following a Natural Disaster 07/07/05 (05-018) |
| 1700       | <u>Reserved</u>  |
| 1800       | <u>Reserved</u>  |
| 1900       | <u>Reserved</u>  |
| 2000       | <u>Reserved</u>  |
| 2100       | <u>Reserved</u>  |
| 2200       | <u>Nuclear Security and Incident Response</u>  |
| 2201       | Security Inspection Program for Commercial Nuclear Power Reactors 09/08/09 (09-021)                                |
| 2201 App A | Security Baseline Inspection Program 02/24/10 (10-007)   |
| 2201 App B | Supplemental Inspection Program 09/08/09 (09-021)  |
| 2201 App C | Generic, Special, and Infrequent Inspections 09/08/09 (09-021)   |
| 2201 App D | Facility Status Reviews for Security and Safeguards Inspection Program 09/08/09 (09-021)                           |
| 2201/001   | Inspection of Additional Security Measures for Radioactive Material Quantities of Concern 09/18/06 (06-024)        |

PART

CHAPTER

2201/001 App B Inspection Requirements and Guidance for Handling and Protection of Safeguards Information - Modified Handling 09/18/06 (06-024)

2201/001 App C Radioactive Material Quantities of Concern Security Inspection Record 09/18/06 (06-024)

2201/002 Inspection of Transition of Contract Security to Proprietary Security Force 04/09/09 (09-011)

2201/003 Reserved for Fitness for Duty Part 26 Subpart K

2300 High Level Waste

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

2400 Low Level Waste Program

2401 Near-Surface Low-Level Radioactive Waste Disposal Facility Inspection Program 11/27/01 (01-028)

2410 Conduct of Observation Audits 07/12/00 (00-012)

2500 Reactor Inspection Program

2500/16 Inspection to determine if a Potential Seismic Interaction Exists Between the Movable In-Core Flux Mapping System and Seal Table at Westinghouse Designed Facilities or Facilities with Similar Designs 06/13/86 (reactivated 09-015)

2500/19 Inspection of Licensee's Actions Taken to Implement Unresolved Safety Issue A-26: Reactor Vessel Pressure Transient Protection for Pressurized Water Reactors 11/14/86 (reactivated 09-015)

2500 Reactor Inspection Program 11/06/86 (reactivated 09-020)

2500/020, rev. 2 Inspection to Determine Compliance with ATWS Rule, 10 CFR 50.62 08/06/03 (reactivated 09-015)

2500/26 Inspection Requirements for NRC Compliance Bulletin 87-02, "Fastener Testing to Determine Conformance with Applicable Material Specifications 11/20/87 (reactivated 09-025)

2500/27 Inspection Requirements for NRC Compliance Bulletin 87-02, "Fastener Testing to Determine Conformance with Applicable Material Specifications 05/22/89 (reactivated 09-025)

2501 Construction Inspection Program: Early Site Permit (ESP) 10/03/07 (07-030)

2502 Construction Inspection Program: Pre-Combined License (Pre-COL) Phase 12/13/10 10-026

2503 Construction Inspection Program: Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) 10/03/07 (07-030)

PART

CHAPTER

|                    |  |
|--------------------|--|
| 2504               | Construction Inspection Program - Inspection of Construction and Operational Programs 10/15/09 (09-024)                            |
| 2505               | Periodic Assessment of Construction Inspection Program Results 09/09/10 (10-019)   |
| 2506               | Construction Reactor Oversight Process General Guidance and Basis Document 10/27/10 (10-022)                                       |
| 2507               | Construction Inspection Program: Vendor Inspections 04/25/11 (11-007))   |
| 2508               | Construction Inspection Program: Design Certification 10/03/07 (07-030)  |
| 2512               | Light Water Reactor Inspection Program - Construction Phase 12/17/86 (reactivated 07-032)  |
| 2512/07,<br>rev. 2 | Regional Construction Assessment Team Inspections 01/27/84 (reactivated 08-004)  |
| 2512/15            | Inspection of Watts Bar Nuclear Plant Employee Concerns Program 11/18/85 (reactivated 08-004)                                      |
| 2512/016           | Inspection of Watts Bar Nuclear Plant Cable Issues Corrective Action Program Plan 07/13/92 (reactivated 08-004)                    |
| 2512/017           | Inspection of Watts Bar Nuclear Plant Cable Tray and Supports Corrective Action Program Plan 07/13/92 (reactivated 08-004)         |
| 2512/018           | Inspection of Watts Bar Nuclear Plant Electrical Conduit and Supports Corrective Action Program Plan 07/13/92 (reactivated 08-004) |
| 2512/019           | Inspection of Watts Bar Nuclear Plant Design Baseline Corrective Action Program Plan 07/13/92 (reactivated 08-004)                 |
| 2512/020           | Inspection of Watts Bar Nuclear Plant Electrical Issues Corrective Action Program Plan 07/13/92 (reactivated 08-004)               |
| 2512/021           | Inspection of Watts Bar Nuclear Plant Equipment Seismic Corrective Action Program Plan 07/13/92 (reactivated 08-004)               |
| 2512/022           | Inspection of Watts Bar Nuclear Plant Fire Protection Corrective Action Program Plan 07/13/92 (reactivated 08-004)                 |
| 2512/023           | Inspection of Watts Bar Nuclear Plant Hanger Update Corrective Action Program Plan 07/13/92 (reactivated 08-004)                   |
| 2512/024           | Inspection of Watts Bar Nuclear Plant Heat Code Traceability Corrective Action Program Plan 07/13/92 (reactivated 08-004)          |
| 2512/025           | Inspection of Watts Bar Nuclear Plant HVAC Duct and Supports Corrective Action Program Plan 07/13/92 (reactivated 08-004)          |
| 2512/026           | Inspection of Watts Bar Nuclear Plant Instrument Lines Corrective Action Program Plan 07/13/92 (reactivated 08-004)                |
| 2512/027           | Inspection of Watts Bar Nuclear Plant Piece Parts/Procurement Corrective Action Program Plan 07/13/92 (reactivated 08-004)         |
| 2512/028           | Inspection of Watts Bar Nuclear Plant QA Records Corrective Action Program Plan 07/13/92 (reactivated 08-004)                      |
| 2512/029           | Inspection of Watts Bar Nuclear Plant Q-List Corrective Action Program Plan 07/13/92 (reactivated 08-004)                          |
| 2512/030           | Inspection of Watts Bar Nuclear Plant Seismic Analysis Corrective Action Program Plan 07/13/92 (reactivated 08-004)                |

PART

CHAPTER

|            |  |
|------------|--|
| 2512/031   | Inspection of Watts Bar Nuclear Plant Vendor Information Corrective Action Program Plan 07/13/92 (reactivated 08-004)            |
| 2512/032   | Inspection of Watts Bar Nuclear Plant Welding Corrective Action Program Plan 07/13/92 (reactivated 08-004)                       |
| 2512/033   | Inspection of Watts Bar Nuclear Plant Concrete Quality Special Program 07/13/92 (reactivated 08-004)                             |
| 2512/034   | Inspection of Watts Bar Nuclear Plant Containment Cooling Special Program 07/13/92 (reactivated 08-004)                          |
| 2512/035   | Inspection of Watts Bar Nuclear Plant Control Room Design Review Special Program 07/13/92 (reactivated 08-004)                   |
| 2512/036   | Inspection of Watts Bar Nuclear Plant Environmental Qualification Special Program 07/13/92 (reactivated 08-004)                  |
| 2512/037   | Inspection of Watts Bar Nuclear Plant Master Fuse List Special Program 07/13/92 (reactivated 08-004)                             |
| 2512/038   | Inspection of Watts Bar Nuclear Plant Mechanical Equipment Qualification Special Program 07/13/92 (reactivated 08-004)           |
| 2512/039   | Inspection of Watts Bar Nuclear Plant Microbe Induced Corrosion Special Program 07/13/92 (reactivated 08-004)                    |
| 2512/040   | Inspection of Watts Bar Nuclear Plant Moderate Energy Line Break Special Program 07/13/92 (reactivated 08-004)                   |
| 2512/041   | Inspection of Watts Bar Nuclear Plant Radiation Monitoring System Special Program 07/13/92 (reactivated 08-004)                  |
| 2512/042   | Inspection of Watts Bar Nuclear Plant Soil Liquefaction Special Program 07/13/92 (reactivated 08-004)                            |
| 2512/043   | Inspection of Watts Bar Nuclear Plant Use-As-Is CAQRS Special Program 07/13/92 (reactivated 08-004)                              |
| 2512 App I | Light Water Reactor Inspection Program - Construction Phase – Procedure List 10/16/07 (07-032)                                   |
| 2513       | Light Water Reactor Inspection Program – Preoperational Testing and Operational Preparedness Phase 08/05/08 (Reactivated 08-023) |
| 2513 App A | Light Water Reactor – Preoperational Testing Phase 08/05/08 (reactivated 08-023)   |
| 2513 App B | Light Water Reactor – Operational Preparedness Phase 08/05/08 (reactivated 08-023)   |
| 2514       | Light Water Reactor Inspection Program - Startup Testing Phase 08/21/89 (89-013)   |
| 2514 App A | Startup Test Program Inspection Procedures 04/15/94 (94-018)   |
| 2515       | Light Water Inspection Program - Operations Phase 09/24/09 (09-022)  |
| 2515 App A | Risk-Informed Baseline Inspection Program 09/03/08 (08-025)  |
| 2515 App B | Supplemental Inspection Program 08/18/11 (11-013)  |
| 2515 App C | Special and Infrequently Performed Inspections 11/09/09 (09-026)   |
| 2515 App D | Plant Status 02/02/10 (10-004)   |
| 2515 App E | Inspection Program Modifications during a Pandemic 01/26/07 (07-004)   |
| 2515 App F | Reactor Construction Activities near Operating Unit(s) 06/02/11 (11-009)   |

PART

CHAPTER

|                    |  |
|--------------------|--|
| 2515/28            | Inspection Requirements to Review Licensee Actions Taken in Response to IE Bulletin 79-02, Revision No. 07/01/79 (reactivated 09-015)  |
| 2515/29            | Inspection Requirements for IEB 79-14 09/14/79 (reactivated 09-015)  |
| 2515/30            | Inspection Requirements To Review PWR Licensee Actions Taken in Response to IE Bulletin No. 79-21 09/14/79 (reactivated 09-015)  |
| 2515/37            | Inspection Requirements To Review Licensee Actions Taken in Response to IE Bulletin 80-11, Masonry Wall Design 07/03/80 (reactivated 09-015)   |
| 2515/64, rev. 1    | Near-Term Inspection Followup to Generic Letter 83-28 04/04/85 (reactivated 09-015)  |
| 2515/65, rev. 2    | TMI Action Plan Requirement Followup 07/10/90 (reactivated 09-015)   |
| 2515/66            | Inspection Requirements for IE Bulletin 84-03, 'Refueling Cavity Water Seals 12/17/84 (reactivated 09-015)   |
| 2515/69            | Inspection of Response to IE Bulletin 85-01 12/20/85 (reactivated 09-015)  |
| 2515/71            | Inspection of Licensees' Actions in Response to IE Bulletin 82-02 12/20/85 (reactivated 09-015)  |
| 2515/72            | Inspection of Response to IE Bulletin 85-02 12/20/85 (reactivated 09-015)  |
| 2515/87            | Inspection of Licensee's Implementation of Multiplant Action A-17: Instrumentation for Nuclear Power Plants To Access Plant and Environs Conditions During and Following an Accident (Regulatory Guide 1.97) 09/17/90 (reactivated 09-015) |
| 2515/88            | Inspection of Licensee's Actions Taken to Implement NRC Guidelines for Protection from Flooding of Equipment Important to Safety 04/06/87 (reactivated 09-015)   |
| 2515/91            | Inspection Followup to Generic Letter 83-28, Item 4.1 04/06/87 (reactivated 09-015)  |
| 2515/101           | Loss of Decay Heat Removal (Generic Letter No. 88-17) 10 CFR 50.54(f) (reactivated 09-015)   |
| 2515/103           | Loss of Decay Heat Removal (Generic Letter No. 88-17) 10 CFR 50.54(f) – Programmed Enhancements (Long Term) Review 12/18/89 (reactivated 09-015)   |
| 2515/105           | Inspection of Licensee Activities in Reference to NRC Bulletin 88-04 – Potential Safety-Related Pump Loss 05/14/90 (reactivated 09-015)  |
| 2515/107           | Electrical Distribution System Functional Inspection (EDSFI) 10/19/90 (reactivated 09-015)   |
| 2515/109, rev. 4   | Inspection Requirements for Generic Letter 89-10, Safety-Related Motor-Operated Valve Testing and Surveillance 07/23/98 (reactivated 09-015)   |
| TI 2515/110, rev.1 | Performance of Safety-Related Check Valves 11/15/93 (reactivated 09-015)   |
| 2515/111           | Electrical Distribution System Followup Inspection 08/06/03 (reactivated 09-015)   |

PART

CHAPTER

|                     |  |
|---------------------|--|
| 2515/113            | Reliable Decay Heat Removal During Outages 11/18/91<br>(reactivated 09-015)  |
| 2515/114            | Inspection Requirements for Generic Letter 89-04, Acceptable<br>Inservice Testing Programs 01/15/92 (reactivated 09-015)   |
| 2515/118,<br>rev. 2 | Service Water System Operational Performance Inspection<br>(SWSOPI) 03/17/95 (reactivated 09-015)  |
| 2515/120            | Inspection of Implementation of Station Blackout Rule Multi-plant<br>Action Item A-22 09/24/93 (reactivated 09-015)  |
| 2515/139            | Inspection of Licensee's Implementation of Generic Letter 96-01 -<br>Testing of Safety Related Logic Circuits 07/23/98 (reactivated 09-<br>015)  |
| 2515/140            | Periodic Verification of Design-Basis Capability of Safety-Related<br>Motor-Operated Valves (GL 96-05) 09/29/98 (reactivated 09-015)   |
| 2515/142            | Draindown During Shutdown and Common-Mode Failure (NRC<br>Generic Letter 98-02) 06/18/99 (reactivated 09-015)  |
| 2515/145            | Circumferential Cracking of Reactor Pressure Vessel Head<br>Penetration Nozzles (NRC Bulletin 2001-01) 09/20/01  |
| 2515/147            | Expanded Table-Top Drill Evaluation 08/14/02 (02-030)<br>(Note this TI contains safeguards material)   |
| 2515/148<br>Rev. 2  | Inspection of Nuclear Reactor Safeguards - Interim Compensatory<br>Measures 03/19/03 (03-009)  |
| 2515/150<br>Rev. 3  | Reactor Pressure Vessel Head and Vessel Head Penetration<br>Nozzles (NRC Order EA-03-009) 02/18/05 (05-006)  |
| 2515/151            | Expanded Pilot Force-on-Force Exercise Evaluation<br>02/06/03 (03-002)   |
| 2515/152,<br>rev. 1 | Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC<br>Bulletin 2003-02) 11/15/03 (reactivated 09-015)   |
| 2515/153,<br>rev. 1 | Reactor Containment Sump Blockage (NRC Bulletin 2003-01)<br>02/18/05 (reactivated 09-015)  |
| 2515/155            | Mark I and Mark II Containment Vulnerabilities<br>12/12/03 (03-040) (Note: TI withheld from public disclosure since<br>it contains sensitive security information)   |
| 2515/158            | Functional Review of Low Margin/Risk Significant Components and<br>Human Actions 06/14/04 (04-017)   |
| 2515/160            | Affecting Safety-Related Equipment 07/29/04 (04-021)<br>Pressurizer Penetration Nozzles and Steam Space Piping<br>Connections in U.S. Pressurized Water Reactors (NRC Bulletin<br>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<br>Measures - Section B.5.b of the February 25, 2002, Order<br>[Safeguards Information] 06/28/05 (05-017)  |
| 2515/165            | Operational Readiness of Offsite Power and Impact on Plant Risk<br>03/03/06 (reactivated 09-025)   |
| 2515/166            | Pressurized Water Reactor Containment Sump Blockage [NRC<br>Rev. 1 Generic Letter 2004-02] 05/16/07 (07-016)   |

PART

CHAPTER

|                    |  |
|--------------------|--|
| 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<br>Rev. 1 | Verification of Site Specific Implementation of B.5.b Phase 2 & 3 Mitigating Strategies 07/25/08 (08-020)  |
| 2515/172<br>1      | Reactor Coolant System Dissimilar Metal Butt Welds 05/27/10 Rev. (10-014)  |
| 2515/173<br>Rev. 1 | Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative 10/31/08 (08-031)  |
| 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<br>Rev. 1 | Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, And Containment Spray Systems (NRC Generic Letter 2008-01) 03/17/10 (10-009)  |
| 2515/178           | Risk Management Technical Specifications Initiative 5b Surveillance Frequency Control Program 05/15/09 (09-013)  |
| 2515/179<br>Rev. 1 | 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) 05/27/10 (10-014) |
| 2515/181           | Validate the Effectiveness of the Regulatory Infrastructure Related to Fire-Induced Circuit Failures and Operator Manual Actions 04/14/10 (10-011)   |
| 2515/182           | Reserved for Review of the Implementation of the Industry Initiative on Underground Piping and Tanks   |
| 2515/183           | Followup to Fukushima Daiichi Nuclear Station Fuel Damage Event 03/23/11 (11-003)  |
| 2515/184           | Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs) 04/29/11 (11-008)   |
| 2515/185           | Reserved for Followup to the Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative   |
| 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 04/30/10 (10-013)   |
| 2518               | Reserved for Construction Inspection Program: Advanced Reactors, Pre Construction Permit (CP)  |
| 2519               | Reserved for Construction Significance Determination Process   |
| 2522               | Reserved for Construction Reactor Oversight Program Self-Assessment Process  |
| 2523               | Reserved for Application of Operating Experience in the Reactor Oversight Process  |

PART

CHAPTER

|          |   |
|----------|---|
| 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<br>04/14/03 (03-012)   |
| 2561/003 | Re-Examination of Year 2000 (Y2K) Program Activities at Selected<br>Decommissioning Reactors 11/30/99 (99-019)                              |
| 2561/004 | Safeguards and Emergency Preparedness Inspection of Interim<br>Compensatory Measures at Decommissioning Power Reactors<br>04/22/03 (03-011) |

2600 Fuel Cycle Facility Inspection Program

|             |   |
|-------------|---|
| 2600        | Fuel Cycle Facility Operational Safety and Safeguards Inspection<br>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 01/27/10 (10-003)  |
| 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    | Reserved for Inspection Guidance for Applying Safety Culture<br>Components Within the Inspection and Enforcement Program for<br>Fuel Cycle Facilities                 |
| 2600/015    | Reserved for Beyond Safety Basis Events Due to Natural<br>Phenomena at Fuel Cycle Facilities  |
| 2601        | Team Assessments of Fuel Cycle and Materials Licensees<br>05/04/90 (90-004)   |
| 2602        | Decommissioning Oversight and Inspection Program for Fuel<br>Cycle Facilities and Materials Licensees 07/29/08 (08-021)   |
| 2604        | Licensee Performance Review 06/28/02 (02-024)   |
| 2606        | Reserved for Assessment of the Change in Risk Resulting From a<br>Non-Compliance at a Fuel Cycle Facility   |
| 2620        | On-Site Construction Reviews of Remedial Action at Inactive<br>Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation<br>Control Act) 10/05/01 (01-020) |
| 2630        | Mixed Oxide Fuel Fabrication Facility Construction Inspection<br>Program 05/18/05 (05-0013)   |
| 2635        | Reserved for Uranium Enrichment Facility Construction and Pre-<br>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<br>Inspections of Fuel Facilities 01/27/10 (10-003)  |
| 2682        | Technical Assistance for Safeguards MC&A Inspections at<br>Fuel Facilities 06/18/84 (84-18)   |
| 2683        | MC&A Safeguards Inspection of Fuel Facilities 07/22/99 (99-011)   |



PART

CHAPTER

|          |   |
|----------|---|
| 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 11/09/09 (09-026)   |
| 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     | <u>Licensee Contractor and Vendor Inspection Program</u>  |
| 2700     | Vendor Inspection Program (VIP) 10/29/90 (90-013)   |
| 2800     | <u>Materials Inspection Program</u>   |
| 2800     | Materials Inspection Program 11/15/10 (10-023)  |
| 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 07/14/05 (05-019) Rev. 1  |
| 2800/038 | Inspection of the Implementation of Increased Controls for Licensees Authorized to Possess Risk Significant Radioactive Material 03/30/06 (06-008)  |

PART

CHAPTER

|          |   |
|----------|---|
| 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 09/15/03 (03-034)   |
| 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 Performance Appraisal Program

|      |   |
|------|---|
| 2901 | Team Inspections 08/24/01 (01-016)                              |
| 2920 | Construction Appraisal Team Inspection Program 03/29/85 (85-11) |

PART  
PROCEDURE

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)

3100 Reserved

3200 Reserved

3300 Reserved

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)
- 35005 Pre-Application Quality Assurance Program Audit 10/03/07 (07-  
030)
- 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 12/13/10 (10-026)
- 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)
- 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)

## PART

### PROCEDURE

|       |  |
|-------|--|
| 35065 | Procurement, Receiving, and Storage 04/01/83<br>(Reactivated 07-032)               |
| 35101 | QA Program Implementation Inspection for Operational Programs<br>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 (reactivated<br>08-032)           |
| 35960 | QA Program Evaluation of Engineering Organization 10/01/82<br>(reactivated 07-034) |
| 35962 | Reserved for Part 52 QA Program Evaluation of Engineering<br>Service Organization  |

### 3600 Organization and Administration

|       |   |
|-------|---|
| 36100 | Inspection of 10 CFR Parts 21 and 50.55(e) Programs for<br>Reporting Defects and Noncompliance 04/25/11 (11-007)) |
| 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<br>Shutdown Reactors 08/11/97 (97-012)                 |

### 3700 Design, Design Changes, Modifications

|       |   |
|-------|---|
| 37002 | Construction Refurbishment Process - Watts Bar Unit 2 02/05/10<br>(10-005)                              |
| 37051 | Verification of As-Builts 12/04/87 (reactivated 07-032)   |
| 37055 | Onsite Design Activities 04/01/83 (reactivated 07-032)  |
| 37060 | Reserved for Inspections under the 10CFR Part 50.69 Special<br>Program                                  |
| 37301 | Comparison of As-Built Plant to FSAR Description 03/22/85<br>(reactivated 08-032)                       |
| 37700 | Design Changes, and Modifications 09/17/01 (01-017)   |
| 37801 | Safety Reviews, Design Changes, and Modifications at<br>Permanently Shutdown Reactors 08/11/97 (97-012) |
| 37803 | Reserved  |
| 37804 | Aircraft Impact Assessment Inspection 04/27/10 (10-012)   |
| 37805 | Engineering Design Verification Inspections 04/25/11 (11-007))  |

### 3800 Procurement

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

PART  
PROCEDURE

3900 Records

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

4000 Review and Audit

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 10/03/07 (07-030)  
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 04/25/11 (11-007))  
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 Procedures 10/27/10 (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))

## PART

### PROCEDURE

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  
10/03/07 (07-030)  
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)

#### 4800 Structural Steel and Supports

48051 Structural Steel and Supports Procedure Review 12/17/86  
(reactivated 07-032)  
48053 Structural Steel and Supports Work Observation 12/17/86  
(reactivated 07-032)  
48055 Structural Steel and Supports Record Review 07/01/83 (reactivated 07-032)

#### 4900 Piping

49001 Inspection of Erosion/Corrosion Monitoring Programs  
12/11/98 (98-019)  
49051 Reactor Coolant Pressure Boundary Piping QA Review 08/16/82  
(reactivated 07-032)

## PART

### PROCEDURE

- 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 (reactivated 07-034)

## 5000 Mechanical Components and Equipment

- 50001 Steam Generator Replacement Inspection 03/23/09 (09-010)
- 50002 Steam Generators 12/31/96 (96-024)
- 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  
(reactivated 07-034)
- 50054 Reactor Vessel Material Surveillance Program 12/04/08 (CN 08-  
034)
- 50055 Reactor Vessel and Internals Record Review 08/16/82 (reactivated  
07-034)
- 50054 Reserved for Reactor Vessel Material Surveillance Program
- 50071 (Safety-Related Components – Procedure Review 04/01/83  
(reactivated 07-034)
- 50073 Mechanical Components – Work Observation 11/19/85 (reactivated  
07-034)
- 50075 Safety Related Components – Records Review 04/01/83  
(reactivated 07-034)
- 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)

## 5100 Electrical Components and Systems

- 51051 Electrical Components and Systems – Procedure Review 03/30/84  
(reactivated 07-034)
- 51053 Electrical Components and systems - Work Observation  
08/06/03 (03-028)
- 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)
- 51080 Reserved for Equipment Qualification

PART  
PROCEDURE

5200 Instrumentation Systems and Components

- 52003 Digital Instrumentation and Control Modification Inspection  
10/31/08 (08-031)
- 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)

5300 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)

5400 Cleanliness

5500 Welding

- 55050 Nuclear Welding General Inspection Procedure 06/20/83 (83-06)
- 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)
- 55150 Weld Verification Checklist 06/20/83 (reactivated 07-034)

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)



PART  
PROCEDURE

5800 Special Processes

5900 Reserve Shutdown System

6000 Fuel Fabrication, Handling and Storage

|         |  |
|---------|--|
| 60501   | Fuel Receipt and Storage 04/30/75 (reactivated 08-032)   |
| 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<br>08/11/97 (97-012)   |
| 60851   | Design Control of ISFSI Components 01/16/08 (08-003)   |
| 60852   | ISFSI Component Fabrication by Outside Fabricators<br>01/16/08 (08-003)  |
| 60853   | On-Site Fabrication of Components and Construction of an<br>ISFSI 01/16/08 (08-003)  |
| 60854   | Preoperational Testing of an Independent Spent Fuel Storage<br>Installation 01/16/08 (08-003)  |
| 60854.1 | Preoperational Testing of Independent Spent Fuel Storage<br>Facility Installation at Operating Plants 09/05/06 (06-022)  |
| 60855   | Operation of an Independent Spent Fuel Storage Installation<br>01/16/08 (08-003)   |
| 60855.1 | Operation of an Independent Spent Fuel Storage Installation at<br>Operating Plants 09/05/06 (06-022)   |
| 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>02/02/04 (04-003)  |
| 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<br>of Transportation and ISFSI Components        |
| 60861   | Reserved for Nondestructive Examination Procedure Liquid<br>Penetrant Examination Procedure Review/Work<br>Observation/Record Review of Transportation ISFSI Components  |
| 60862   | Reserved for Nondestructive Examination Procedure Magnetic<br>Particle Examination Procedure Review/Work Observation/Record<br>Review of 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<br>of Transportation and ISFSI Components  |

PART  
PROCEDURE

6100 Surveillance

|       |   |
|-------|---|
| 61705 | Calibration of Nuclear Instrumentation Systems<br>05/12/86 (86-25)                      |
| 61706 | Core Thermal Power Evaluation 07/14/86 (86-36)  |
| 61707 | Determination of Reactor Shutdown Margin 10/11/85<br>(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<br>(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

|       |   |
|-------|---|
| 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)  |
| 62709 | Configuration Risk Assessment and Risk Management Process<br>12/28/00 (00-029)  |
| 62710 | Power-Operated Gate Valve Pressure Locking and Thermal<br>Binding 04/30/10 (CN 10-013)                                    |
| 62711 | Reserved for Operational Reliability Assurance Process"   |
| 62708 | Motor-Operated Valve Capability 09/12/00 (00-018)   |
| 62801 | Maintenance and Surveillance at Permanently Shutdown<br>Reactors 08/11/97 (97-012)  |

6300 Construction Testing

|       |   |
|-------|---|
| 63050 | Containment Structural Integrity Test 07/01/83 (reactivated 07-034) |
|-------|---|

6400 Fire Prevention/Protection

|       |  |
|-------|--|
| 64051 | Procedures – Fire Prevention/Protection 07/01/79<br>(reactivated 07-034) |
| 64053 | Fire Loop Installation 07/01/79 (reactivated 07-034)                     |

## PART

### PROCEDURE

- 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
- 64704 Fire Protection Program 06/24/98 (98-010)
- 64705 Part 52, Fire Protection Operational Program 10/03/07 (07-030)

### 6500 10 CFR Part 52 ITAAC Inspections

- 65001 Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Related Work 10/03/07 (07-030)
- 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 10/03/07 (07-030)
- 65001.D Inspection of the ITAAC-Related Operational Testing Program 08/05/09 (09-019)
- 65001.E Inspection of the ITAAC-Related Qualification Program 08/19/08 (08-024)
- 65001.F Inspection of the ITAAC-Related Design and Fabrication Requirements 08/19/08 (08-024)
- 65001.01 Inspection of ITAAC-Related Foundations & Buildings 10/03/07 (07-030)
- 65001.02 Inspection of ITAAC-Related Installation of Structural Concrete 10/03/07 (07-030)
- 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)
- 65001.05 Inspection of ITAAC-Related Installation of Reactor Pressure Vessel and Internals 08/19/08 (08-024)
- 65001.06 Inspection of ITAAC-Related Installation of 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)
- 65001.11 Construction Inspection Program Inspection of ITAAC-Related Containment Integrity and Containment Penetration 08/19/08 (08-024)

## PART

### PROCEDURE

|          |  |
|----------|--|
| 65001.12 | Inspection of ITAAC-Related Installation of Heating, Ventilating, and Air Conditioning Systems 07/29/08 (08-021)                       |
| 65001.13 | Inspection of ITAAC-Related Installation of Load Handling Equipment and Fuel Racks 08/05/09 (09-019)                                   |
| 65001.14 | Inspection of ITAAC-Related Installation of Complex Systems with Multiple Components 07/29/08 (08-021)                                 |
| 65001.15 | Inspection of ITAAC-Related Installation of Fire Protection Equipment 07/01/08 (08-019)  |
| 65001.16 | Inspection of ITAAC-Related Engineering 10/03/07 (07-030)  |
| 65001.17 | Inspection of ITAAC-Related Security Structures, Systems, and Components 10/15/09 (09-024)   |
| 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 | Reserved for Inspection of Pipe Rupture Hazard Analysis Design Acceptance Criteria (DAC) – Related ITAAC                               |
| 65001.22 | Reserved for Inspection of Digital Instrumentation and Control (DI&C) System/Software Design Acceptance Criteria (DAC) – Related ITAAC |
| 65001.23 | Reserved for AP1000 HFE Integrated System Validation –   |
| 65001.24 | Reserved for AP1000 HFE Task Support Verification –  |
| 65001.25 | Reserved for AP1000 HFE Design Verification –  |
| 65001.26 | Reserved for AP1000 HFE As-Built Configuration Verification –  |
| 65051    | Low-Level Radioactive Waste Storage Facilities 06/13/86 (reactivated 07-034)   |
| 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 02/03/047 (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)   |

## PART

### PROCEDURE

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

## 7000 Preoperational Testing

|       |   |
|-------|---|
| 70300 | Preoperational Test Procedure Test Review 10/01/83 (reactivated<br>08-032)  |
| 70301 | Overall Preoperational Test Program Review Requirements<br>10/01/83 (reactivated 08-032)  |
| 70302 | Preoperational Test Program Implementation 10/01/83 (reactivated<br>08-032)   |
| 70304 | Engineered Safety Features Test - Preoperational Test Procedure<br>Review 08/06/03 (03-028)   |
| 70305 | Reactor Protection System Test Preoperational Test Procedure<br>Review Preoperational Testing Procedure Verification 01/01/79<br>(reactivated 08-032) |
| 70306 | Loss of Offsite Power Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)  |
| 70307 | Containment Integrated Leak Rate Test - Procedure<br>Review 03/07/86 (86-13)  |
| 70308 | Preoperational Hot Functional Testing - PWR Procedure Review)<br>10/01/83 (reactivated 08-032)  |
| 70311 | Preoperational Testing Procedure Verification 10/01/83 (reactivated<br>08-032)  |
| 70312 | Preoperational Test Witnessing 10/01/83 (reactivated 08-032)  |
| 70313 | Containment Integrated Leak Rate Test 11/12/85 (85-36)  |
| 70314 | HFT Witnessing 10/01/81 (reactivated 08-032)  |
| 70315 | Engineered Safety Features Test Preoperational Test Witnessing)<br>01/01/79 (reactivated 08-032)  |
| 70316 | Loss of Offsite Power Test Preoperational Test Witnessing<br>01/01/79 (reactivated 08-032)  |
| 70317 | Reactor Protection System Test Preoperational Test Witnessing<br>01/01/79 (reactivated 08-032)  |
| 70323 | Containment Leak Rate Test Results Evaluation<br>10/03/85 (85-30)   |
| 70324 | Preoperational Test Results Evaluation - Integrated Hot Functional<br>Test 04/01/77 (reactivated 08-032)  |
| 70325 | Preoperational Test Results Evaluation - Reactor Protection<br>System 01/01/79 (reactivated 08-032)   |
| 70326 | Preoperational Test Results Evaluation - Loss of Offsite Power<br>01/01/79 (reactivated 08-032)   |

PART

PROCEDURE

|       |  |
|-------|--|
| 70329 | Preoperational Test Result Evaluation Verification 10/01/83<br>(reactivated 08-032)  |
| 70331 | Vibration Test- Preoperational Test Procedure Review<br>01/01/79 (reactivated 09-003)                                      |
| 70332 | Control Rod System Test - Preoperational Test Procedure<br>Review 01/01/79 (reactivated 09-003)                            |
| 70333 | Chemical Control System Test - Preoperation Test Procedure<br>Review 01/01/79 (reactivated 09-003)                         |
| 70334 | Engineered Safety Features Act. Sys. Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)          |
| 70335 | Safety and Relief Valve Test - Preoperational Test Procedure<br>Review 01/01/79 (reactivated 09-003)                       |
| 70336 | Residual / Decay Heat Removal System Test - Preoperational<br>Test Review 01/01/79 (reactivated 09-003)                    |
| 70337 | Main Stream Isolation Valve Test - Preoperational Test<br>Procedure Review) 01/01/79 (reactivated 09-003)                  |
| 70338 | Auxilliary Feedwater System Test -Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                    |
| 70339 | Component Cooling Water System Test - Preoperational; Test<br>Procedure Review 01/01/79 (reactivated 09-003)               |
| 70340 | D.C. Power System Test - Preoperational Test Procedure<br>Review 01/01/79 (reactivated 09-003)                             |
| 70341 | Emergency/Standby Power Supply System Test -<br>Preoperational Teat Procedure Review 01/01/79 (reactivated<br>09-003)      |
| 70342 | Containment Combustable Gas Control System Test -<br>Preoperational Test Procedure Review 01/01/79 (reactivated<br>09-003) |
| 70344 | Containment Isolation Vales Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                   |
| 70345 | Containment Heat/Cool/Vent. System Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)            |
| 70346 | Aux. Bldg. Heat /Cool/Vent. System Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)            |
| 70347 | Pressurizer and Level Control System Test- Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)           |
| 70348 | Main Feedwater Control System Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                 |
| 70349 | Reactor Coolant Leak Detection System Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)         |
| 70350 | Loose Parts Monitoring System Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                 |
| 70351 | Integrated Reactor Control System Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)             |
| 70352 | Remote Reactor Shutdown Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                       |

PART

PROCEDURE

|       |  |
|-------|--|
| 70353 | Cranes, Hoists and Lifting Equipment Test - Preoperational Test Procedure Review 01/01/79 (reactivated 09-003) |
| 70354 | Nuclear Instrumentation System Test - Preoperational Test Procedure Review 01/01/79 (reactivated 09-003)       |
| 70355 | Compressed Gas System Test - Preoperational Test Procedure Review 01/01/79 (reactivated 09-003)                |
| 70362 | Reactor Coolant System Hydrostatic Test Procedure Review 10/01/83 (reactivated 08-032)                         |
| 70367 | Reserved for Part 52 Pre-operational Test Program Implementation   |
| 70368 | Reserved for Part 52 Containment Leak Rate Testing (Programmatic)  |
| 70369 | Reserved for Part 52 Containment Leak Rate Testing   |
| 70370 | Testing Piping Support and Restraint Systems 03/07/86 (86-13)  |
| 70371 | Reserved for Part 52 Testing of Pipe Support and Restraint System  |
| 70400 | Preoperational Test Results Evaluation 10/01/83 (reactivated 08-032)   |
| 70431 | Vibration Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                                  |
| 70432 | Control Rod System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                         |
| 70433 | Chemical Control System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                    |
| 70434 | Engineered Safety Features Act. Sys. Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)       |
| 70435 | Safety and Relief Valves Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                   |
| 70436 | Residual / Decay Heat Removal System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)       |
| 70437 | Main Stream Isolation Valve Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                |
| 70438 | Auxilliary Feedwater System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                |
| 70439 | Component Cooling Water System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)             |
| 70440 | D.C. Power System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                          |
| 70441 | Emergency / Standby Power Supply System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)    |
| 70442 | Containment Combustible Gas Control System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003) |
| 70443 | Containment Spray System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                   |
| 70444 | Containment Isolation Valve Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                |
| 70445 | Containment Heat/Cool/Vent. System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)         |
| 70446 | Auxiliary Bldg. Heat/Cool/Vent. System Test - Preoperational Test Witnessing                                   |

## PART

### PROCEDURE

|       |   |
|-------|---|
| 70447 | Pressurizer and Level Control System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)  |
| 70448 | Main Feedwater Control System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)         |
| 70449 | Reactor Coolant Leak Detection System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003) |
| 70450 | Loose Parts Monitoring System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)         |
| 70451 | Integrated Reactor Control System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)     |
| 70452 | Remote Reactor Shutdown Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)               |
| 70453 | Cranes, Hoists and Lifting Equipment Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)  |
| 70454 | Nuclear Instrumentation System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)        |
| 70455 | Compressed Gas System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)                 |
| 70462 | Reactor Coolant System Hydrostatic Test - Test Witnessing 10/01/83 (reactivated 08-032)                   |
| 70562 | Reactor Coolant System Hydrostatic Test Results Evaluation 10/01/83 (reactivated 08-032)                  |
| 70701 | Reserved  |
| 70702 | Reserved  |

### 7100 Operations (License & TS Requirements)

|            |  |
|------------|--|
| 71002      | License Renewal Inspection 02/18/05 (05-006)   |
| 71003      | Post-Approval Site Inspection for License Renewal 10/31/08 (08-031)  |
| 71004      | Power Uprate 04/30/10 (CN 10-013)  |
| 71007      | Reactor Vessel Head Replacement Inspection 06/04/07 (07-018)   |
| 71013      | Reserved for Review of License Renewal Commitments for Plants in Timely Renewal with Extended Delay in the NRC Review of Application |
| 71111      | Reactor Safety-Initiating Events, Mitigating Systems, Barrier Integrity 05/16/08 (08-015)  |
| 71111.01   | Adverse Weather Protection (Effective 01/01/10) 11/09/09 (09-026)  |
| 71111.04   | Equipment Alignment 02/27/07 (07-007)  |
| 71111.05AQ | Fire Protection (Annual / Quarterly) 09/30/10 (10-020)   |
| 71111.05N  | Reserved for Fire Protection - NFPA 805 (Triennial)  |
| 71111.05T  | Fire Protection (Triennial) 09/30/10 (10-020)  |
| 71111.05T  | Fire Protection (Triennial) (effective 08/01/11) 04/19/11 (11-006)   |
| 71111.05XT | Fire Protection - NFPA 805 (Triennial) (effective 08/01/11) 04/19/11 (11-006)  |
| 71111.06   | Flood Protection Measures 06/25/09 (09-016)  |
| 71111.07   | Heat Sink Performance 07/06/10 (10-015)  |



PART

PROCEDURE

|          |   |
|----------|---|
| 71111.08 | In-service Inspection Activities (Effective 01/01/10) 11/09/09 (09-026)                             |
| 71111.11 | Licensed Operator Requalification Program 1/05/06 (06-001)  |
| 71111.12 | Maintenance Effectiveness 04/29/11 (11-008)   |
| 71111.13 | Maintenance Risk Assessments and Emergent Work Control 11/16/09 (Effective 01/01/10) (09-027)       |
| 71111.15 | Operability Determinations and Functionality Assessments 04/05/11 (11-005)                          |
| 71111.17 | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications 10/31/08 (08-031)   |
| 71111.18 | Plant Modifications 12/21/10 (10-028)   |
| 71111.19 | Post Maintenance Testing 01/17/02 (02-001)  |
| 71111.20 | Refueling and Other Outage Activities (Effective 01/01/10) 11/09/09 (09-026)                        |
| 71111.21 | Component Design Bases Inspection 12/06/10 (10-025)   |
| 71111.22 | Surveillance Testing 12/24/09 (09-032)  |
| 71013    | Reserved for Review of License Renewal Commitments for Plants in Timely Renewal                     |
| 71114    | Reactor Safety-Emergency Preparedness 06/29/06 (06-016)   |
| 71114.01 | Exercise Evaluation 06/29/06 (06-016)   |
| 71114.02 | Alert and Notification System Evaluation 12/07/09 (09-031)  |
| 71114.03 | Emergency Response Organization Augmentation Testing 08/24/07 (07-026)                              |
| 71114.04 | Emergency Action Level and Emergency Plan Changes 10/31/08 (08-031)                                 |
| 71114.05 | Correction of emergency Preparedness Weaknesses and Deficiencies 10/25/06 (06-029)                  |
| 71114.06 | Drill Evaluation 10/25/06 (06-029)  |
| 71114.07 | Emergency Preparedness Component, of the Force-On-Force (FOF) Exercise Evaluation 12/02/09 (09-029) |
| 71121    | Occupational Radiation Safety 03/06/02 (02-008)   |
| 71121.01 | Access Control to Radiologically Significant Areas 03/06/02 (02-008)                                |
| 71121.02 | ALARA Planning and Controls 03/06/08 (02-008)   |
| 71121.03 | Radiation Monitoring Instrumentation 03/06/02 (02-008)  |
| 71122    | Public Radiation Safety 01/24/03 (03-001)   |
| 71122.01 | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems 12/18/08 08-036            |
| 71122.02 | Radioactive Material Processing and Transportation 01/24/03 (03-001)                                |
| 71122.03 | Radiological Environmental Monitoring Program (REMP) 01/24/03 (03-001)                              |
| 71124    | Reserved for Radiation Safety - Public and Occupational 12/02/09 (09-030)                           |
| 71124.01 | Radiological Hazard Assessment and Exposure Controls 12/02/09 (09-030)                              |
| 71124.02 | Occupational ALARA Planning and Controls 12/02/09 (09-030)  |

## PART

### PROCEDURE

|          |   |
|----------|---|
| 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation 12/02/09 (09-030)  |
| 71124.04 | Occupational Dose Assessment 12/02/09 (09-030)  |
| 71124.05 | Radiation Monitoring Instrumentation 12/02/09 (09-030)  |
| 71124.06 | Radioactive Gaseous and Liquid Effluent Treatment 12/02/09 (09-030)   |
| 71124.07 | Public Radiation Safety 12/02/09 (09-030)   |
| 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation 12/02/09 (09-030) |
| 71130    | Security 02/24/10 (10-007)  |
| 71130.01 | Access Authorization 02/24/10 (10-007)  |
| 71130.02 | Access Control 02/24/10 (10-007)  |
| 71130.03 | Contingency Response - Force-On-Force Testing 02/05/09 09-005   |
| 71130.04 | Equipment Performance, Testing and Maintenance 02/24/10 (10-007)  |
| 71130.05 | Protective Strategy Evaluation 02/24/10 (10-007)  |
| 71130.06 | Protection of Safeguards Information 01/07/10 (10-001)  |
| 71130.07 | Security Training 02/24/10 (10-007)   |
| 71130.08 | Fitness for Duty Program 01/07/10 (10-001)  |
| 71130.10 | Reserved for Information Technology Security  |
| 71130.11 | Material Control & Accounting (MC&A) 12/10/08 (08-035)  |
| 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 08/16/11 (11-012)   |
| 71150    | Discrepant or Unreported Performance Indicator Data 01/04/07 (07-001)   |
| 71151    | Performance Indicator Verification 06/28/07 (07-021)  |
| 71152    | Problem Identification and Resolution 08/18/11 (11-013)   |
| 71153    | Follow-up of Events and Notices of Enforcement Discretion 02/02/10 (10-004)   |
| 71302    | Preoperational Test Program Implementation Verification 10/01/83 (reactivated 08-032)                               |
| 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 Permanently Shutdown Reactors 08/11/97 (97-012)                    |
| 71841    | Human Performance 12/12/00 (00-027)   |

## 7200 Startup Testing

|       |   |
|-------|---|
| 72300 | Startup Test Procedure Review 01/20/84 (84-04)          |
| 72301 | Startup Test Results Evaluation 01/20/84 (84-04)        |
| 72302 | Startup Test Witnessing and Observation 01/20/84(84-04) |

PART

PROCEDURE

|        |  |
|--------|--|
| 72303  | Startup Testing for ABWR: Test Procedure Review, Test Witnessing, and Test Results Evaluation 09/05/06 (06-021)  |
| 72304  | Startup Testing for AP 1000: Test Procedure Review, Test Witnessing, and Test Results Evaluation 09/05/06 (06-021)                                     |
| 72400B | Overall Startup Test Program 07/01/80 (80-16)  |
| 72401  | Reserved for Part 52 Overall Setup Test Program  |
| 72500B | Initial Fuel Loading Procedure 04/30/75 (75-16)  |
| 72501  | Reserved for Part 52 Initial Fuel Load Procedure Review  |
| 72502B | Initial Criticality Procedure Review (BWR) 04/30/75 (75-16)  |
| 72504B | Heat-up Phase Procedure Review 04/30/75 (75-16)  |
| 72508B | Power Ascension Procedure Review: HPCI System 07/01/80 (80-16)   |
| 72509B | Power Ascension Procedure Review: Control Rod Drive System 07/01/80 (80-16)  |
| 72510B | Power Ascension Procedure Review - Relief Valves and MSIVs 04/30/75 (75-16)  |
| 72512B | Startup Test Procedure Review - RCIC or Recirculation Pump Trip 04/30/75 (75-16)   |
| 72514B | Startup Test Procedure Review - Turbine Trip/Generator Trip 07/01/80 (80-16)   |
| 72516B | Startup Test Procedure Review - Shutdown From Outside the Control Room (Group A) 07/01/80 (80-16)  |
| 72517B | Startup Test Procedure Review: Loss of Offsite Power (Group A & B) 07/01/80 (80-16)  |
| 72518B | Startup Test Procedure Review - Core Performance 07/01/80 (80-16)  |
| 72524  | Initial Fuel Loading Witnessing 01/20/84 (84-04)   |
| 72525  | Reserved for Part 52 Initial Fuel Load Witnessing  |
| 72526  | BWR Initial Criticality Witnessing 01/20/84 (84-04)  |
| 72532  | Power Level Plateau Data Review (BWR) 01/20/84 (84-04)   |
| 72564B | Pre-critical Test Procedure Review - Protective Trip Circuit or Rod Drop Measurement 07/01/80 (80-16)  |
| 72566B | Pre-critical Test Procedure Review - RES Lead Test or or Pressurizer Effectiveness 07/01/80 (80-16)  |
| 72570B | Initial Criticality Procedure Review (PWR) 07/01/80 (80-16)  |
| 72572B | Low Power Test Procedures Review Moderator Temperature Coefficient and Boron Worth or Control Rod Worth and Pseudo Rod Ejection Worth 07/01/80 (80-16) |
| 72576B | Power Ascension Test Procedure Review - Natural Circulation or Power Reactivity Coefficient Measurement 07/01/80 (80-16)                               |
| 72578B | Power Ascension Test Procedure Review - Evaluation of Core Performance 07/01/80 (80-16)  |
| 72580B | Power Ascension Test Procedure Review - Turbine Trip or Generator Trip 07/01/80 (80-16)  |
| 72582B | Power Ascension Test Procedure Review - Loss of Offsite Power (Group A) 07/01/80 (80-16)   |
| 72583B | Power Ascension Test Procedure Review: Shutdown from   |

## PART

### PROCEDURE

|        |   |
|--------|---|
| 72584B | Outside the Control Room (Group B) 07/01/80 (80-16)         |
|        | Power Ascension Test Procedure Review - Evaluation of       |
|        | Flux Asymmetry or Pseudo Rod Ejection Test 04/30/75 (75-16) |
| 72592  | PWR Initial Criticality Witnessing 01/20/84 (84-04)         |
| 72596B | Pre-critical Data Review 07/01/80 (80-16)                   |
| 72600B | Power Level Plateau Data Review (25% PWR) 07/01/80          |
|        | (80-16)   |
| 72608B | Power Level Plateau Data Review (50% PWR) 07/01/80          |
|        | (80-16)   |
| 72616B | Power Level PI01/14/86 (86-03)                              |

### 7300 In-service Inspection

|       |  |
|-------|--|
| 73052 | In-service Inspection - Review of Procedures 01/14/86 (86-03)      |
| 73053 | Pre-service Inspection – Observation of Work and Work Activities   |
|       | 01/01/79 (reactivated 07-034)                                      |
| 73054 | Part 52, Pre-service and In-service Inspection - Review of Program |
|       | 07/01/08 (08-019)  |
| 73055 | Pre-service Inspection Data Review and Evaluation 01/01/79         |
|       | (reactivated 07-034)   |
| 73753 | In-service Inspection 06/24/98 (98-010)                            |
| 73754 | Part 52 - Preservice Inspection - Non-Destructive Examination      |
|       | 10/27/10 (10-022)  |
| 73755 | In-service Inspection - Data Review and Evaluation 10/27/10        |
|       | (10-022)   |
|       | 01/14/86 (86-03)   |
| 73756 | In-service Testing of Pumps and Valves 07/27/95 (95-009)           |
| 73757 | Part 52 In-service Inspection - Data Review and Evaluation         |
|       | 04/18/08 (08-012)  |

### 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

PART  
PROCEDURE

|       |   |
|-------|---|
| 79501 | LWR Water Chemistry Control and Chemical Analysis – Audits<br>02/24/89 (reactivated 08-032) |
| 79502 | Plant Systems Affecting Plant Water Chemistry 12/31/91<br>(reactivated 08-032)              |
| 79503 | Reserved for Part 52 LWR Water Chem. Control & Chem. Analysis<br>(Pre-Op and Supp)          |
| 79504 | Reserved for Part 52 Plant systems Affecting Plant Water Chem.                              |
| 79702 | Control and monitoring of Radiological Source Term<br>04/17/00 (00-006)                     |

8000 Environmental Protection

|       |  |
|-------|--|
| 80210 | Environmental Protection - Initial and Periodic Inspections<br>06/22/05 (05-016)                         |
| 80211 | Reserved for Part 52 Environmental Protection - Initial & Periodic<br>Inspection                         |
| 80521 | Radiological Environmental Monitoring (Preoperational and<br>Supplemental) 01/01/84 (reactivated 08-032) |
| 80522 | Part 52, Radiological Environmental Monitoring Program (REMP)<br>07/01/08 (08-019)                       |
| 80600 | Reserved for Independent Assessment of Site Radiological<br>Conditions                                   |
| 80721 | Radiological Environmental Monitoring 09/17/01(01-017)   |

8100 Physical Security

|          |   |
|----------|---|
| 81000    | Reserved for Security Construction Inspection Program                                       |
| 81000.01 | Reserved for Access Authorization   |
| 81000.02 | Reserved for Access Control   |
| 81000.03 | Reserved for Performance Evaluation Program   |
| 81000.04 | Reserved for Equipment Performance, Testing and Maintenance                                 |
| 81000.05 | Reserved for Protective Strategy Evaluation   |
| 81000.07 | Reserved for Security Training Program  |
| 81000.08 | Reserved for Fitness For Duty Operational Program   |
| 81000.10 | Reserved for Security Organization, Management Effectiveness,<br>Program Reviews and Audits |
| 81000.11 | Reserved for Material Control and Accountability  |
| 81001.1  | Independent Spent Fuel Storage Installation(s) at Operating Plants<br>02/02/04 (04-003)     |
| 81018    | Physical Security Plan and Implementing Procedures 05/24/07 (07-<br>17)                     |
| 81019    | Reserved for Part 52 Security Plan & Implementing Procedures                                |
| 81020    | Management Effectiveness - Security Program 06/13/07 (07-019)                               |
| 81021    | Reserved for Part 52 Management Effectiveness   |
| 81023    | Reserved for Part 52 Security Organization  |
| 81022    | Security Organization 06/13/07 (07-019)   |

PART

PROCEDURE

|       |  |
|-------|--|
| 81034 | Security Program Audit 09/10/07 (07-027)   |
| 81035 | Reserved for Part 52 Security Audit Program  |
| 81038 | Records and Reports 09/10/07 (07-027)  |
| 81039 | Reserved for Part 52 Records & Reports   |
| 81042 | Testing and Maintenance 04/12/07 (07-013)  |
| 81043 | Reserved for Part 52 Testing & Maintenance   |
| 81046 | Locks, Keys, and Combinations 09/10/07 (07-027)  |
| 81047 | Reserved for Part 52 Locks, Keys & Combinations  |
| 81052 | Physical Barriers - Protected Areas 09/10/07 (07-027)  |
| 81053 | Reserved for Part 52 Physical Barriers - Protected Areas   |
| 81054 | Physical Barriers - Vital Areas, Material Access Areas, and<br>Controlled Access Areas 09/10/07 (07-027)   |
| 81055 | Reserved for Part 52 Physical Barriers - Vital Areas, Material<br>Access Areas & Controlled Access Areas   |
| 81058 | Security System Power Supply 09/10/07 (07-027)   |
| 81059 | Reserved for Part 52 Security System Power Supply  |
| 81062 | Lighting 09/10/07 (07-027)   |
| 81063 | Reserved for Part 52 Lighting  |
| 81064 | Compensatory Measures 09/10/07 (07-027)  |
| 81065 | Reserved for Part 52 Compensatory Measures   |
| 81066 | Assessment Aids 09/10/07 (07-027)  |
| 81067 | Reserved for Part 52 Assessment Aides  |
| 81070 | Access Control - Personnel 12/22/08 (08-037)   |
| 81071 | Reserved for Part 52 Access Control - Personnel  |
| 81072 | Access Control (Power Reactor) - Packages 05/09/84 (84-15)   |
| 81073 | Access Control (Fuel Facility) - Packages, Material, and<br>Strategic Special Nuclear Material (SSNM) 08/05/09 (09-019)  |
| 81074 | Access Control - Vehicles 12/22/08 (08-037)  |
| 81075 | Reserved for Part 52 Access Control - (Power Reactors) –<br>Packages   |
| 81076 | Reserved for Part 52 Access Control - Vehicles   |
| 81078 | Detection Aids - Protected Areas 11/23/09 (09-028)   |
| 81079 | Reserved for Part 52 Detection Aids - Protected Areas  |
| 81080 | Detection Aids – MAA and CAA 12/22/08 (08-037)   |
| 81081 | Reserved for Part 52 Detection Aids - VA, MAA, & CAA   |
| 81084 | Alarm Stations 09/10/07 (07-027)   |
| 81085 | Reserved for Part 52 Alarm Stations  |
| 81088 | Communications 09/10/07 (07-027)   |
| 81089 | Reserved for Part 52 Communications  |
| 81120 | Inspection Requirements and Guidance for Additional Security<br>Measures for the Physical Protection in Transit for Radioactive<br>Material Quantities of Concern 04/01/10 (10-010)<br>(Note this IP contains safeguards material) |
| 81310 | Physical Protection of Shipments of Irradiated Fuel<br>12/22/08 (08-037)   |
| 81311 | Physical Security Requirements for Independent Spent Fuel<br>Storage Installations 06/02/11 (11-009)   |

PART

PROCEDURE

|       |  |
|-------|--|
| 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 12/02/09 (09-029)                               |
| 81501 | Personnel Training and Qualification - General Requirements 12/02/09 (09-029)  |
| 81502 | Fitness for Duty Program 12/22/08 (08-037)   |
| 81503 | Reserved for Part 52 Personnel Training and Qualification - Gen. Requirements  |
| 81504 | Fitness for Duty Program for Construction 10/15/09 (09-024)  |
| 81601 | Safeguards Contingency Plan - Implementation Review 12/22/08 (08-037)  |
| 81602 | Reserved for Part 52 Safeguards Contingency Plan - Implementation Review   |
| 81700 | Physical Security Program for Power Reactors 07/01/97 (97-010)   |
| 81810 | Protection of Safeguards Information 09/10/07 (07-027)   |
| 81811 | Reserved for Part 52 Physical Protection Safeguards Information  |
| 81815 | Authorizations for Access to National Security Information (NSI) and Restricted Data (RD) 12/22/08 (08-037)                              |
| 81820 | Physical Protection Facility Approval and Safeguarding of National Security Information (NSI) and Restricted Data (RD) 12/22/08 (08-037) |

8200 Emergency Planning

|       |  |
|-------|--|
| 82001 | Evaluation of Emergency Preparedness 05/22/00 (00-010)   |
| 82002 | Reserved for Part 52, Emergency Preparedness Program     |
| 82201 | Emergency Detection and Classification 03/23/05 (05-008) |
| 82202 | Protective Action Decision Making 03/23/05 (05-008)      |

PART  
PROCEDURE

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)
- 83521 Radiation Protection - Startup 01/01/84 (84-01)
- 83522 Radiation Protection, Plant Chemistry, Radwaste, and  
Environmental: Organization and Management Controls 12/31/91  
(reactivated 08-032)
- 83523 Radiation Protection, Plant Chemistry, Radwaste, Transportation  
and Environmental: Training and Qualifications 01/01/84  
(reactivated 08-032)
- 83524 External Occupational Exposure Control and Personal Dosimetry  
(Preoperational and Supplemental) 01/01/84 (reactivated 08-032)
- 83525 Internal Exposure Control and Assessment (Preoperational and  
Supplemental) 01/01/84 (reactivated 08-032)
- 83526 Control Of Radioactive Materials and Contamination, Surveys, and  
Monitoring (Preoperational And Supplemental) 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 Reserved for Part 52 Radiation Protection, Plant Chemistry,  
Radwaste, and Environmental
- 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)



PART

PROCEDURE

|       |  |
|-------|--|
| 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 09/17/01 (01-017) |
| 83727 | Facilities and Equipment (Basic) 09/17/01 (01-017)   |
| 83728 | Maintaining Occupational Exposures ALARA 04/17/00 (00-006)                                   |
| 83729 | Occupational Exposure during Extended Outages 12/31/91 (91-021)                              |
| 83746 | Offsite Dose Calculation Manual (ODCM) 07/29/08 (08-021)                                     |
| 83750 | Occupational Radiation Exposure 06/06/02 (02-023)  |
| 83801 | Inspection of Remedial and Final Surveys at Permanently Shutdown Reactors 09/05/06 (06-020)  |
| 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)   |
| 84521 | Radwaste - Startup 01/01/84 (84-01)  |
| 84522 | Solid Wastes (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)   |
| 84523 | Liquids and Liquid Wastes (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)  |
| 84524 | Gaseous Waste System (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 | Reserved for Part 52 Liquid Waste Management System  |
| 84529 | Reserved for Part 52, Gaseous Waste Management System (Preoperational and Supplemental)  |
| 84750 | Radioactive Waste Treatment, and Effluent and Environmental Monitoring 03/15/94 (94-006)   |
| 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

PART

PROCEDURE

|       |  |
|-------|--|
| 85102 | Material Control and Accounting - Reactors 03/29/85 (85-10)  |
| 85103 | Reserved for Part 52 Material Control and Accounting - Reactor   |
| 85200 | MC&A for Licensees Possessing Less Than or Equal to<br>One Effective Kilogram of SNM 04/10/85 (85-15)              |
| 85203 | Management Structure and Controls 09/09/10 (10-019)  |
| 85205 | Facility Operations and Internal Controls 09/09/10 (10-019)  |
| 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)  |
| 85215 | Records and Reports 01/17/86 (86-04)   |
| 85303 | Material Control and Accounting Management Structure and<br>Personnel Training and Qualification 09/09/10 (10-019) |
| 85305 | Item Monitoring 09/09/10 (10-019)  |
| 85307 | Process Monitoring 12/21/2010 (10-027)   |
| 85309 | Measurement Systems and Control 10/20/10 (10-021)  |
| 85311 | Physical Inventory Program 11/15/10 (10-023)   |
| 85313 | Alarm Resolution Program 11/15/10 (10-023)   |
| 85315 | Internal Control 12/21/2010 (10-027)   |
| 85401 | Management Structure 09/09/10 (10-019)   |
| 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<br>Facilities 11/15/10 (10-023)                           |
| 85405 | Item Control 09/09/10 (10-019)   |
| 85406 | Resolution Program for Low Enriched Uranium Fuel Facilities<br>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<br>Reactors 06/22/88 (88-07)                                 |
| 85501 | Physical Inventory Program for Uranium Enrichment Facilities<br>11/15/10 (10-023)                                  |
| 85502 | Detection Program for Uranium Enrichment Facilities 12/21/2010<br>(10-027)   |
| 85503 | Resolution Program for Uranium Enrichment Facilities 11/15/10(10-<br>023)  |

8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

|       |   |
|-------|---|
| 86001 | Design, Fabrication, Testing, and Maintenance of<br>Transportation Packagings 01/16/08 (08-003)         |
| 86700 | Spent Fuel Pool Activities 09/17/01 (01-017)  |
| 86730 | Transportation of Radioactive Materials (49 CFR Parts 100-<br>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   |

PART  
PROCEDURE

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 07/29/02 (02-029)
- 87121 Industrial Radiography Programs 08/22/05 (05-023)
- 87122 Irradiator Programs 12/31/02 (02-047)
- 87123 Well Logging Programs 11/25/03 (03-037)
- 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)
- 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 08/24/11 (11-014)
- 87133 Medical Gamma Stereotactic Radiosurgery and Teletherapy Programs 08/24/11 (11-014)
- 87134 Medical Broad-Scope Programs 08/24/11 (11-014)
- 87135 Panoramic and Underwater Irradiator Security Program 10/30/08 (08-030)
- 87136 Manufacturing and Distribution (M&D) Security Program) 10/30/08 (08-030)
- 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)
- 88002 Operational Event Review and Feedback Programs at Fuel Cycle Facilities 10/30/08 (08-030)
- 88003 Reactive Inspection for Events at Fuel Cycle Facilities 08/10/98 (98-012)
- 88004 Reserved for Adverse Weather Protection
- 88005 Management Organization and Controls 09/05/06 (06-020)
- 88010 Operator Training/Retraining 09/05/06 (06-020)
- 88015 Nuclear Criticality Safety Program 09/05/06 (06-020)
- 88016 Nuclear Criticality Safety Evaluations and Analyses 07/28/06 (06-019)

PART

PROCEDURE

|       |   |
|-------|---|
| 88017 | Criticality Alarm Systems 07/28/06 (06-019)   |
| 88020 | Operational Safety 09/05/06 (06-020)  |
| 88025 | Maintenance and Surveillance Testing 09/25/06 (06-025)  |
| 88030 | Radiation Protection 07/28/06 (06-019)  |
| 88035 | Radioactive Waste Management 09/25/06 (06-025)  |
| 88045 | Effluent Control and Environmental Protection 09/05/06 (06-020)   |
| 88050 | Emergency Preparedness 09/05/06 (06-020)  |
| 88051 | Evaluation of Exercises and Drills 07/28/06 (06-019)  |
| 88054 | Fire Protection (Triennial) 09/11/08 08-026   |
| 88055 | Fire Protection (Annual) 08/19/08 (08-024)  |
| 88070 | Permanent Plant modification 09/05/06 (06-020)  |
| 88071 | Configuration Management Programmatic Review 07/28/06<br>(06-019)   |
| 88075 | Event Follow-up 07/28/06 (06-019)   |
| 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<br>Facilities 07/03/02 (02-026)   |
| 88105 | Management Organization and Controls 12/30/96 (96-026)  |
| 88106 | Quality Assurance: Program Development and Implementation<br>(Pre-licensing and Construction) 02/07/07 (07-006)                                   |
| 88107 | Quality Assurance: Design and Documentation Control (Pre-<br>licensing and 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<br>Measuring and Test Equipment (Pre-licensing and Construction)<br>06/20/07 (07-020) |
| 88110 | Quality Assurance: Problem Identification, Resolution and<br>Corrective 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<br>Commercial Grade Item Dedication Process [Reactive]<br>10/25/06 (06-030)               |
| 88115 | Supplier/Vendor Inspection (Construction Phase)<br>10/25/06 (06-030)  |
| 88116 | Inspection of Safety Function Interfaces for the Mixed Oxide Fuel<br>Fabrication Facility (Pre-licensing and Construction) 02/07/07 (07-<br>006)  |
| 88130 | Resident Inspection Program for On-Site Construction Activities at<br>the Mixed Oxide Fuel Fabrication Facility 10/25/06 (06-030)                 |
| 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)   |

## PART

### PROCEDURE

|       |  |
|-------|--|
| 88134 | Quality Assurance: Piping Relied on for Safety) 05/18/05 (05-013)                    |
| 88135 | Resident Inspection Program for Category I Fuel Cycle Facilities<br>0925/06 (06-025) |
| 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 08/08/07<br>(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  |

## 8900 Fuel Facility and Materials Special Program

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

## 9000 Reportable Matters and Report Reviews

|        |  |
|--------|--|
| 90001  | Construction Regulatory Response Column Inspections 10/27/10<br>(10-022)                                   |
| 90002  | Reserved for Expanded Program Review Inspection  |
| 90003  | Reserved for Unacceptable Performance Inspection   |
| 90501B | Reportable Matters - Startup Test Program 04/30/75 (75-16)   |
| 90502  | Reserved for Part 52 Reportable Matters - Test Program   |
| 90700  | Feedback of Operational Experience Information at Operating<br>Power Reactors 03/23/05 (05-008)            |
| 90712  | In-office Review of Written Reports of Non-routine Events at Power<br>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

PART  
PROCEDURE

9200 Planned Non-Routine Activities

- 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 03/30/05 (05-009)
- 92711 Continued Implementation of Strike Plans During an Extended Strike 03/30/05 (05-009)
- 92712 Resumption of Normal Operations After a Strike 08/21/92 (92-010)
- 92714 Reserved for Part 52 Follow-up
- 92717 IE Bulletins for Information and IE Information Notice Followup 09/25/85 (reactivated 10-020)
- 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 is 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

- 93001 OHSA Interface Activities 09/08/09 (09-021)
- 93002 Managing Fatigue 11/09/09 (09-026)
- 93100 Safety-Conscious Work Environment Issue of Concern Followup 08/18/11 (11-013)
- 93702 Prompt Onsite Response to Events at Operating Power Reactors 09/17/01 (01-017)
- 93800 Augmented Inspection Team 03/23/09 (09-010)

## PART

### PROCEDURE

- 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 03/23/09 (09-010)
- 93813 Reserved for Part 52 Operational Readiness Assessment Team  
Inspection
- 93814 Independent Design Verification Program 11/15/10 (10-023)

#### 9400 Technical Activities of an Administrative Nature

- 94300 Status of Plant Readiness for an Operating Licensee 02/14/86  
(Reactivated 07-034)
- 94301 Reserved for Part 52 Status of 10 CFR 52 Plant Readiness for Fuel  
Load

#### 9500 Strategic Determination Actions

- 95001 Supplemental Inspection for One or Two White Inputs in a Strategic  
Performance Area 02/09/11 (11-001)
- 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 02/09/11 (11-001)
- 95003.01 Emergency Preparedness 01/15/09 (09-002)
- 95003.02 Guidance for Conducting an Independent NRC Safety Culture  
Assessment) 01/15/09 (09-002)

#### 9600 Materials Safety and Security

PART  
PROCEDURE

|       |   |
|-------|---|
| 96001 | NRC Force-on-Force Inspections at Category Fuel Cycle Facilities<br>08/24/11 (11-014) |
| 9700  | <u>Reserved</u>   |
| 9800  | <u>Reserved</u>   |
| 9900  | <u>Guidance</u> <sup>2</sup>  |
| 99000 | Technical Guidance 05/12/86 (86-26)   |

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)   |
| Oper Det Process  | Operability Determinations & Functionality Assessments For Resolution of Degraded or Nonconforming Conditions Adverse to Quality or Safety 09/26/05 (05-026) |
| 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)   |

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



PART  
GUIDANCE

|                   |  |
|-------------------|--|
| 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<br>05/12/86 (86-26)       |
| STS               | Surveillance Sections - Locked or Otherwise Secured<br>Components 10/01/77 (77-25) |
| STS Interp        | Licensee Technical Specification Interpretations 02/03/97 (97-001)                 |

Maintenance

|  |
|--|
| Voluntary Entry into Limiting Conditions For Operation Action<br>Statements to Perform Preventive Maintenance<br>01/17/02 (02-001) |
| Assessing On-Line Leak Sealing of ASME Code Class 1 & 2<br>07/15/97 (97-011)   |
| Filled Organic Coatings Used in Maintenance of Safety Related<br>Equipment 10/11/94 (94-018)                                       |
| Preconditioning of Structures, Systems, and Components (SSCs)<br>Before Determining Operability 09/28/98 (98-014) [PRECOND.TG]     |

Mechanical

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

Operations

|  |
|--|
| Notice of Enforcement Discretion 02/07/05 (05-005)<br>[NOED.TG]  |
| Notice of Enforcement Discretion for Gaseous Diffusion Plants<br>05/03/99 (99-008) [NOEDGAS.TG]  |
| Operability Determinations & Functionality Assessments for<br>Resolution of Degraded or Nonconforming Conditions Adverse to<br>Quality or Safety 04/16/08 (08-016) [TG STSODP] |

PART  
GUIDANCE

Operation - Safety and Compliance [TG 9900 SAFETY] 09/11/07  
(07-028)

PART  
GUIDANCE

PART  
10 CFR GUIDANCE

|                             |   |
|-----------------------------|---|
| 10                          | Title 10 of the Code of Federal Regulations 12/08/86 (86-54)                              |
| 10CFR71 and<br>49CFR171-178 | 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<br>Material 11/15/74 (74-010) |

Interpretations

END