

NRC INSPECTION MANUAL

IIPB

TABLE OF CONTENTS

Table of Contents Current through Change Notice 03-029 Issued 08/08/03

PART

CHAPTER

0000 NRC Inspection Manual¹

- 0030 Policy and Guidance for Development of NRC Inspection Manual Programs 04/30/97 (97-005)
- 0040 Preparing, Revising, and Issuing Documents for the NRC Inspection Manual 02/21/03 (03-006)

0100 Program Responsibilities

- 0102 Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities 03/06/02 (02-008)
- 0111 Monitoring Activities for the DOE West Valley Demonstration Project 03/04/02 (02-006)

0200 Program Management Reports

- 0230 Morning Report 11/18/02 (02-043)

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)
- 0302 Inspection Program Evaluation Activities 09/27/95 (95-013)
- 0303 Item Reporting 11/30/99 (99-019)
- 0305 Operating Reactor Assessment Program 02/19/03 (03-005)
- 0306 Information Technology Support For The Reactor Oversight Process 06/24/03 (03-021)
- 0307 Reactor Oversight Process Self-Assessment Program 12/12/02 (02-045)
- 0308 Reactor Oversight Process Basis Document 02/21/03 (03-006)
- 0312 Technical Assistance for Radiation Safety Inspections at Nuclear Fuel Cycle Facilities and Materials Licensees' Sites 06/06/02 (02-023)

¹The date and numbers in parentheses to the right of the chapter/inspection procedure title are the issue date and the change notice number under which the title was issued.

PART
CHAPTER

| | |
|---------------------|--|
| 0330 | Guidance for NRC Review of Licensee Draft Documents 07/08/96 (96-015) |
| 0350 | Staff Guidelines for Oversight of Operating Reactor Facilities in an Extended Shutdown as a Result of Significant Performance Problems 03/06/01 (01-006) |
| 0400 | <u>Enforcement Policy</u> |
| 0500 | <u>Tracking Systems</u> |
| 0600 | <u>Documentation of Program Findings</u> |
| 0608 | Performance Indicator Program 04/16/02 (02-017) |
| 0609 | Significance Determination Process 03/21/03 (03-010) |
| 0609.01 | Enforcement Review Panel 06/20/03 (03-021) |
| 0609.02 | Process For Appealing NRC Characterization of Inspection Findings (SDP Appeal Process) 04/30/02 (02-022) |
| 0609.03 | Senior Reactor Analyst Support Objectives 08/16/01 (01-015) |
| 0609 App A | Significance Determination of Reactor Inspection Findings For At-Power Situations 03/18/02 (02-009) |
| 0609 App B | Emergency Preparedness Significance Determination Process 03/06/03 (03-007) |
| 0609 App C | Occupational Radiation Safety Significance Determination Process 06/24/03 (03-020) |
| 0609 App D | Public Radiation Safety Significance Determination Process 07/24/03 (03-025) |
| 0609 App E | Interim Physical Protection - Significance Determination Process 08/14/01 (01-014) |
| 0609 App F | Fire Protection Significance Determination Process 02/27/01 (01-005) |
| 0609, App F, Att 1, | Application of Fire Protection Risk-Significant Screening Methodology to Hypothetical Cases 02/27/01 (01-005) |
| 0609, App F, Att 2, | Additional Guidance for the Assessment of Findings Using Significance Determination Process Entry 02/27/01 (01-005) |
| 0609 App G | Shutdown Operations Significance Determination Process 02/27/01 (01-005) |
| 0609 App H | Containment Integrity Significance Determination Process 04/21/00 (00-007) |
| 0609 App I | Operator Requalification - Human Performance Significance Determination Process 03/27/02 (02-011) |
| 0610 | Inspection Reports 06/22/98 (98-009) |
| 0612 | Power Reactor Inspection Reports 06/20/03 (03-021) |

PART

CHAPTER

0612, Exh 1 Standard Reactor Inspection Report Outline 06/20/03 (03-021)
0612, Exh 2 Inspection Report Documentation Matrix 06/20/03 (03-021)
0612, Exh 3 Sample Reactor Inspection Report 06/20/03 (03-021)
0612, Exh 4 Sample Cover Letters 06/20/03 (03-021)
0612, App A List of Acronyms Used in IMC 0612 06/20/03 (03-021)

0612, App B Issue Screening 06/20/03 (03-021)
0612, App C Documentation Guidance For Supplemental Inspections
06/20/03 (03-021)
0612, App D Guidance for Documenting Inspection Procedure 71152,
"Identification and Resolution of Problems" 06/20/03 (03-021)
0612, App E Examples of Minor Issues 06/20/03 (03-021)
0620 Inspection Documents and Records
07/08/96 (96-015)
0630 Analysis of the Impact of Noncompliance with Physical
Security Requirements 10/01/82 (82-09)

0700 Communications With Licensees

0720 Nuclear Regulatory Commission Generic Communications
Regarding Nuclear Reactor Issues 03/21/94 (94-009)
0730 Generic Communications Regarding Materials and Fuel Cycle
Issues 10/22/02 (02-040)

0800 Feedback - Improving the Regulatory Process

0801 Reactor Oversight Process Feedback Program 03/05/02 (02-007)

0900 Reporting of Events/Incidents

0970 Potentially Generic Questions Identified
by Regional Offices 12/11/00 (00-024)

1000 Regional Office Program Interfaces

1007 Interfacing Activities Between Regional Offices of NRC and
OSHA 02/07/02 (02-004)

1100 Notifications of Meetings and Conferences

PART

CHAPTER

1120 Preliminary Notifications 12/27/94 (94-021)

1200 Inspector Requirements

1201 Conduct of Employees 06/29/99 (99-010)
1202 Senior Resident Inspector Site Turnover 01/17/02 (02-001)
1220 Processing of NRC Form 241, "Report of Proposed Activities
In Non-Agreement States," Areas of Exclusive Federal
Jurisdiction and Offshore Waters, and Inspection of Agreement
State Licensees Operating Under 10 CFR 150.20
05/01/03 (03-013)

1220, APP I Procedures and Guidelines For Processing NRC Form 241
05/01/03 (03-013)

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 Inspector Access at Power Reactors 09/18/81 (81-23)

1245 Qualification Program For the Office of Nuclear Reactor
Regulation Programs 05/01/03 (03-014)

1245 Att 1 General Overview of the Inspector Training and Qualification
Program 05/01/03 (03-014)

1245 Att 2 Inspector Competencies 04/05/02 (02-014)

1245 Att3 General Orientation Topics 04/05/02 (02-014)

1245 APP A Basic-Level Training and Qualification Journal 05/01/03 (03-014)

1245 APP B General Proficiency-Level Training and Qualification Journal
05/01/03 (03-014)

1245 C1 Reactor Operations Inspector Technical Proficiency Qualification
Journal 05/01/03 (03-014)

1245 C2 Reactor Engineering Inspection Technical Proficiency Qualification
Journal 05/01/03 (03-014)

1245 C3 Reactor Health Physics Inspector Technical Proficiency
Qualification Journal 05/01/03 (03-014)

1245 C4 Reactor Safeguards Inspector Technical Proficiency Qualification
Journal 04/05/02 (02-014)

1245 C5 Research and Test Reactor Inspector Technical Proficiency
Qualification Journal 04/05/02 (02-014)

1245 C6 Emergency Preparedness Inspector Technical Proficiency
Qualification Journal 05/01/03 (03-014)

1245 C8 Vender Inspector Technical Proficiency Qualification Journal
05-28/03 (03-017)

PART**CHAPTER**

| | |
|------------|---|
| 1245 C9 | Construction Inspector Technical Proficiency Qualification Journal 05/01/03 (03-014) |
| 1245 C10 | Operator Licensing Examiner Technical Proficiency Qualification Journal 05/01/03 (03-014) |
| 1245 D1 | Senior Reactor Analyst Training and Qualification Program 01/24/03 (03-001) |
| 1245 D3 | Engineering Specialties Training Areas 04/05/02 (02-014) |
| 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 01/05/01 (01-002) |
| Sec. IV | Fuel Cycle Safeguards Inspector Physical Security 01/05/01 (01-002) |
| Sec. V | NMSS Headquarters Fuel Cycle Safeguards Inspector Material Control and Accounting 01/05/01 (01-002) |
| Sec. VI | NMSS Headquarters Transportation Packaging and Dry Storage System Safety Inspector 01/05/01 (01-002) |
| Sec. VII | Fuel Cycle License Reviewer 01/05/01 (01-002) |
| Sec. VIII | Waste Management Inspectors and License Reviewers 01/05/01 (01-002) |
| Sec. IX | Decommissioning Inspectors 01/05/01 (01-002) |
| Sec. X | Decommissioning Project Managers/Technical Reviewers 04/14/03 (03-012) |
| Sec. XI | Materials Exempt Distribution License Reviewer 01/05/01 (01-002) |
| Sec. XII | Uranium Recovery Inspector 01/05/01 (01-002) |
| Sec. XIII | Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002) |
| Sec. XIV | High-Level Waste Repository Inspector 04/14/03 (03-012) |
| Sec. XV | High-Level Waste Repository License Technical Reviewer 04/14/03 (03-012) |
| 1246 APP B | NRC Inspector, License Reviewer and Project Manager/Technical Reviewer Training and Qualification 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 01/05/01 (01-002) |
| Sec. V | NMSS Headquarters Fuel cycle Safeguards Inspector Material Control and Accounting (MC&A) 01/05/01 (01-002) |
| Sec. VI | NMSS Headquarters Transportation Packaging and Dry Storage |

PART

CHAPTER

| | |
|-----------|---|
| | System Safety Inspector 01/05/01 (01-002) |
| Sec. VII | Fuel cycle License Reviewer 01/05/01 (01-002) |
| Sec. VIII | Waste Management Inspector and License Reviewer 01/05/01 (01-002) |
| Sec. IX | Decommissioning Inspector 01/05/01 (01-002) |
| Sec. X | Decommissioning Project Manager/Technical Reviewer 04/14/03 (03-012) |
| Sec. XI | Materials Exempt Distribution License Reviewer 01/05/01 (01-002) |
| Sec. XII | Uranium Recovery Inspector 01/05/01 (01-002) |
| Sec. XIII | Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002) |
| Sec. XIV | High-Level Waste Repository Inspector 04/14/03 (03-012) |
| Sec. XV | High-Level Waste Repository License Technical Reviewer 04/14/03 (03-012) |

1300 Incident Response

| | |
|------|--|
| 1301 | Response to Non-Emergency Incidents Involving Radioactive Material 10/20/00 (00-022) |
| 1302 | Action Levels For Radiation Exposures and Contamination Associated With Materials Events Involving Members of the Public 12/31/97 (97-019) |
| 1303 | Requesting Emergency Acceptance of Radioactive Material by the U.S. Department of Energy (DOE) 12/30/02 (02-046) |
| 1330 | Response to Transportation Accidents Involving Radioactive Materials 03/04/02 (02-006) |
| 1360 | Use of Physician and Scientific Consultants in the Medical Consultant Program 04/24/02 (02-020) |

1400 Reserved

| | |
|------|---|
| 1415 | State Contracts for Environmental Monitoring 06/28/91 (91-009) |
|------|---|

1500 Reserved

1600 Emergency Preparedness

| | |
|------|---|
| 1601 | Communication Protocol For Assessing Offsite Emergency Preparedness Following a Natural Disaster 06/24/03 (03-020) |
|------|---|

PART

CHAPTER

1700 Reserved

1800 Reserved

1900 Reserved

2000 Reserved

2500/020 Inspection to Determine Compliance with ATWS Rule
10 CFR 50.62 08/06/03 (03-028)

2100 Reserved

2200 Reserved

2300 High Level Waste

2300 Yucca Mountain Pre-Operation Inspection Program
06/20/01 (01-013)

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

2501 Nuclear Reactor Inspection Program - Early Site Permit)
05/29/03 (03-018)

2509 Browns Ferry Unit 1 Restart Project Inspection Program
08/06/03 (03-028)

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 Reactor Inspection Program - Operations Phase

PART

CHAPTER

| | |
|------------|---|
| | 01/24/03 (03-001) |
| 2515 App A | Risk-Informed Baseline Inspection Program 01/17/02 (02-001) |
| 2515 App B | Supplemental Inspection Program 01/17/02 (02-001) |
| 2515 App C | Special and Infrequently Performed Inspections 02/12/03 (03-003) |
| 2515 App D | Plant Status 07/10/03 (03-024) |
| 2515/111 | Electrical Distribution System Followup Inspection 08/06/03 (03-028) |
| 2515/142 | Draindown During Shutdown and Common-Mode Failure (NRC Generic Letter 98-02)) 06/18/99 (99-009) |
| 2515/147 | Expanded Table-Top Drill Evaluation 08/14/02 (02-030) (Note this TI contains safeguards material) |
| 2515/148 | Inspection of Nuclear Reactor Safeguards - Interim Compensatory Rev. 2 Measures 03/19/03 (02-033) |
| 2515/149 | Mitigating systems Performance Index Pilot Verification 09/24/02 (02-034) |
| 2515/150 | Reactor Pressure Vessel Head and Vessel Head Penetration Rev. 2 Nozzles (NRC Bulletin 2002-02) 08/04/03 (03-026) |
| 2518/151 | Expanded Pilot Force-on-Force Exercise Evaluation 02/06/03 (03-002) |
| 2516 | Policy and Guidance For The License Renewal Inspection Program 04/10/02 (02-016) |
| 2530 | Integrated Design Inspection Program 04/24/85 (85-17) |
| 2535 | Design Verification Programs 03/24/89 (89-007) |
| 2545 | Research and Test Reactor Inspection Program - Operations Phase 06/13/85 (85-23) |
| 2561 | Decommissioning Power Reactor Inspection Program 04/14/03 (03-012) |
| 2561/003 | Re-Examination of Year 2000 (Y2K) Program Activities at Selected Decommissioning Reactors 11/30/99 (99-019) |
| 2561/004 | Safeguards and Emergency Preparedness Inspection of Interim Compensatory Measures at Decommissioning Power Reactors 04/22/03 (03-011) |

2600 Fuel Cycle Facility Inspection Program

| | |
|----------|--|
| 2600 | Fuel Cycle Facility Operational Safety and Safeguards Inspection Program 04/14/03 (03-012) |
| 2600/003 | Operational Safety Review 01/27/99 (99-001) |
| 2600/004 | Headquarters Inspections of Critical Mass and Rare-Earth Fuel Cycle Licensees 01/27/99 (99-001) |
| 2600/005 | Criticality Safety Programs at Fuel Cycle Facilities 10/12/99 (99-017) |
| 2600/006 | Resident Inspection Program for Category I Fuel Cycle Facilities 07/12/00 (00-012) |

PART

CHAPTER

| | |
|------------|---|
| 2600/007 | Interim Guidance For Fuel Cycle Facility Core Inspection Program 08/25/00 (00-014) |
| 2600/008 | Inspection Guidance and Requirements for Interim Compensatory Measures (ICMs) at the Honeywell Conversion Plant, Metropolis, Illinois 07/11/02 (02-028) |
| 2600/009 | Inspection of Interim Compensatory Measures (ICMs) At Gaseous Diffusion Plants (GDP) 06/05/03 (03-019) |
| 2600/010 | 1-Inch UF ₆ Cylinder Valve Testing 07/02/03 (03-022) |
| 2601 | Team Assessments of Fuel Cycle and Materials Licensees 05/04/90 (90-004) |
| 2602 | Decommissioning Inspection Program For Fuel Cycle Facilities and Materials Licensees 06/04/97 (97-007) |
| 2603 | Inspection of the Nuclear Chemical Process Safety Program at Fuel Cycle Facilities 01/16/96 (96-001) |
| 2603/001 | Chemical Safety Inspections of Fuel Cycle Licensees 01/16/96 (96-001) |
| 2604 | Licensee Performance Review 06/28/02 (02-024) |
| 2605 | Decommissioning Procedures For Fuel Cycle and Material Licensees 11/12/96 (96-022) |
| 2610 | Inspection Program at Nuclear Fuel Services Plant Erwin, Tennessee 01/09/86 (86-01) |
| 2620 | On-Site Construction Reviews of Remedial Action at Inactive Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation Control Act) 10/05/01 (01-020) |
| 2630 | Gaseous Diffusion Plant Operational Safety and Safeguards Inspection Program 12/30/96 (96-026) |
| 2641 | In-Situ Leach Facilities Inspection Program 08/25/00 (00-014) |
| 2681 | Physical Protection and Transport of SNM and Irradiated Fuel Inspections of Fuel Facilities 09/26/96 (96-020) |
| 2681/05 | Physical Security Inspection For Category I Fuel Cycle Facilities 05/04/90 (90-004) |
| 2681/06 | Protected Area Housekeeping 07/10/90 (90-006) |
| 2681/007 | Inspection of Safeguards Interim Compensatory Measures at Nuclear Fuel Facilities Possessing Strategic Special Nuclear Material (SNMM) 08/08/03 (03-029) |
| 2682 | Technical Assistance for Safeguards MC&A Inspections at Fuel Facilities 06/18/84 (84-18) |
| 2683 | MC&A Safeguards Inspection of Fuel Facilities 07/22/99 (99-011) |
| 2690 | Inspection Program For Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations 12/03/01 (01-029) |
| 2690 App A | Inspection Program for an ISFSI Located at a Reactor Site 12/03/01 (01-029) |
| 2690 App B | Inspection Program for an ISFSI Located Away From Any Reactor Site 12/03/01 (01-029) |

PART

CHAPTER

2700 Licensee Contractor and Vendor Inspection Program

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

2800 Materials Inspection Program

2800 Materials Inspection Program 12/01/00 (00-026)
2800/026 Followup Inspection of Formerly-Licensed Sites Identified as
Potentially Contaminated 07/12/00 (00-012)
2800/030 Verification of the Status of Devices Authorized For Use
Under a General License 05/30/00 (00-011)
2800/032 Followup - Materials Safeguard Advisory 10/31/01 (01-023)
2800/033 Revised Materials Inspection Program 12/31/02 (02-047)
Rev. 2
2801 Uranium Mill 11e.(2) Byproduct Material Disposal Site and
Facility Inspection Program 08/25/00 (00-014)
2810 Master Materials License Inspection Program
02/28/00 (00-002)
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

2900 Performance Appraisal Program DI 04/04/85 (85-14)
2901 Team Inspections 08/24/01 (01-016)
2920 Construction Appraisal Team Inspection Program 03/29/85
(85-11)

3000 Management Meetings

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

3100 Reserved

3200 Reserved

PART

PROCEDURE

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)
- 35006 Post-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
- 35012 Early Site Permit Quality Assurance Controls Assessment and Conclusion 05/29/03 (03-018)
- 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)

3600 Organization and Administration

- 36100 10 CFR Part 21 Inspections at Nuclear Power Reactors 08/30/91 (91-011)
- 36800 Organization 09/17/01 (01-017)
- 36801 Organization, Management, and Cost Controls at Permanently Shutdown Reactors 08/11/97 (97-012)

3700 Design, Design Changes, Modifications

- 37001 10 CFR 50.59 Safety Evaluation Program 06/24/98 (98-010)
- 37550 Engineering 11/15/99 (99-018)
- 37551 Onsite Engineering 06/24/98 (98-010)
- 37700 Design Changes, and Modifications 09/17/01 (01-017)
- 37801 Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors 08/11/97 (97-012)

3800 Procurement

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

3900 Records

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

PART

PROCEDURE

39745 Class I Non-Power Reactors Organization and Operations and
Maintenance Activities 08/07/92 (92-009)

4000 Review and Audit

40001 Resolution of Employee Concerns 06/03/97 (97-006)
40002 Inspections to Review Allegations 06/28/02 (02-024)
40500 Effectiveness of Licensee Process to Identify, Resolve, and
Prevent Problems 05/03/99 (99-008)
40745 Class I Non-Power Reactor Review and Audit and Design
Change Functions 08/07/92 (92-009)
40755 Class III Non-Power Reactors 08/07/92 (92-009)
40801 Self-Assessment, Auditing, and Corrective Action at
Permanently Shutdown Reactors 08/11/97 (97-012)

4100 Training

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

4200 Procedures

42001 Emergency Operating Procedures 06/28/91 (91-009)
42700 Plant Procedures 11/15/95 (95-015)
42745 Class I Non-Power Reactor Procedures 08/07/92 (92-009)

4300 Vendor Procedures

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

4400 Reserved

4500 Geotechnical/Foundation

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

4600 Structural Concrete

PART

PROCEDURE

4700 Containment (Post-Tensioning)

4800 Structural Steel and Supports

4900 Piping

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

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

5000 Mechanical Components and Equipment

50001 Steam Generator Replacement Inspection 09/06/00 (00-015)

50002 Steam Generators 12/31/96 (96-024)

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

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

5100 Electrical Components and Systems

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)

5200 Instrumentation Systems and Components

52001 Digital Retrofits Receiving Prior Approval 03/02/98 (98-003)

52002 Digital Retrofits Not Receiving Prior Approval
03/02/98 (98-003)

5300 Containment Penetrations

5400 Cleanliness

5500 Welding

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

PART

PROCEDURE

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

5600 Calibration

5700 Nondestructive Examination, Destructive Examination and Fabrication Testing

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

5800 Special Processes

5900 Reserve Shutdown System

6000 Fuel Fabrication, Handling and Storage

60705 Preparation for Refueling 07/27/95 (95-009)
60710 Refueling Activities 07/27/95 (95-009)
60745 Class I Non-Power Reactor Fuel Movement 10/03/94 (94-017)
60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors
08/11/97 (97-012)
60851 Design Control of ISFSI Components 05/22/00 (00-010)
60852 ISFSI Component Fabrication By Outside Fabricators
07/12/00 (00-012)
60853 On-Site Fabrication of Components and Construction of an
ISFSI 09/07/00 (00-016)
60854 Preoperational Testing of an ISFSI 03/28/02 (02-012)
60855 Operation of an ISFSI 03/28/02 (02-012)
60856 Review of 10 CFR 72.212(b) Evaluations 04/02/03 (03-008)
60857 Review of 10 CFR 72.48 Evaluations 03/09/01 (01-007)

6100 Surveillance

61705 Calibration of Nuclear Instrumentation Systems
05/12/86 (86-25)
61706 Core Thermal Power Evaluation 07/14/86 (86-36)

PART

PROCEDURE

- 61707 Determination of Reactor Shutdown Margin 10/11/85 (85-31)
- 61708 Isothermal and Moderator Temperature Coefficient Determinations 10/11/85 (85-31)
- 61709 Total Power Coefficient of Reactivity at Pressurized Water Reactors 07/14/86 (86-36)
- 61710 Control Rod Worth Measurements (PWR) 10/11/85 (85-31)
- 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 01/01/84 (84-02)
- 61745 Class I Non-Power Reactor Surveillance 08/07/92 (92-009)

6200 Maintenance

- 62002 Inspection of Structures, Passive Components, and Civil Engineering Features at Nuclear Power Plants 12/31/96 (96-024)
- 62003 Inspection of Steel and Concrete Containments at Nuclear Power Plants 06/11/97 (97-008)
- 62706 Maintenance Rule 12/13/00 (00-028)

- 62709 Configuration Risk Assessment and Risk Management Process 12/28/00 (00-029)
- 62710 Power-Operated Gate Valve Pressure Locking and Thermal Binding 01/17/02 (02-001)
- 62708 Motor-Operated Valve Capability 09/12/00 (00-018)
- 62801 Maintenance and Surveillance at Permanently Shutdown Reactors 08/11/97 (97-012)

6300 Construction Testing

6400 Fire Prevention/Protection

- 64704 Fire Protection Program 06/24/98 (98-010)

6500 Reserved

6600 Reserved

PART

PROCEDURE

6700 Reserved

6800 Reserved

6900 Non-Power Reactor Inspection

- 69001 Class II Non-Power Reactors 04/09/97 (97-004)
- 69003 Class I Non-Power Reactor Operator Licenses, Requalification,
and Medical Activities 04/09/97 (97-004)
- 69004 Class I Non-Power Reactor Effluent and Environmental
Monitoring 04/09/97 (97-004)
- 69005 Class I Non-Power Reactor Experiments 04/09/97 (97-004)

7000 Preoperational Testing

- 70304 Engineered Safety Features Test - Preoperational Test Procedure
Review 08/06/03 (03-028)
- 70307 Containment Integrated Leak Rate Test - Procedure
Review 03/07/86 (86-13)
- 70313 Containment Integrated Leak Rate Test 11/12/85 (85-36)
- 70323 Containment Leak Rate Test Results Evaluation
10/03/85 (85-30)
- 70370 Testing Piping Support and Restraint Systems 03/07/86 (86-13)

7100 Operations (License & TS Requirements)

- 71001 Licensed Operator Requalification Program Evaluation
07/23/98 (98-011)
- 71002 License Renewal Inspection 09/18/00 (00-019)
- 71003 Post-Approval Site Inspection for License Renewal
12/09/02 (02-044)
- 71004 Power Uprate 07/09/02 (02-027)
- 71005 Inspector Review of Licensing-Related Information
08/05/03 (03-027)
- 71007 Reactor Vessel Head Replacement Inspection 07/10/03 (03-024)
- 71111 Reactor Safety-Initiating Events, Mitigating Systems,
Barrier Integrity 05/06/03 (03-015)
- 71111.DS Safety System Design and Performance Capability
05/06/03 (03-015)
- 71111.EP Equipment Availability, and Functional Capability 05/06/03 (03-015)
- 71111.HS Heat Sink Performance 05/06/03 (03-015)

PART

PROCEDURE

| | |
|----------|---|
| 71111.ST | Post-Maintenance and Surveillance Testing 05/06/03 (03-015) |
| 71111.01 | Adverse Weather Protection 01/17/02 (02-001) |
| 71111.02 | Evaluation of changes, Tests, or Experiments 07/07/03 (03-023) |
| 71111.04 | Equipment Alignment 01/17/02 (02-001) |
| 71111.05 | Fire Protection 03/06/03 (03-007) |
| 71111.06 | Flood Protection Measures 01/17/02 (02-001) |
| 71111.07 | Heat Sink Performance 01/17/02 (02-001) |
| 71111.08 | Inservice Inspection Activities 07/07/03 (03-023) |
| 71111.11 | Licensed Operator Requalification Program 08/20/02 (02-031) |
| 71111.12 | Maintenance Effectiveness 07/01/02 (02-025) |
| 71111.13 | Maintenance Risk Assessments and Emergent Work Evaluation 01/17/02 (02-001) |
| 71111.14 | Personnel Performance Related to Nonroutine Plant Evolutions and Events 07/07/03 (03-023) |
| 71111.15 | Operability Evaluations 01/17/02 (02-001) |
| 71111.16 | Operator Workarounds 01/17/02 (02-001) |
| 71111.17 | Permanent Plant modifications 01/17/02 (02-001) |
| 71111.19 | Post Maintenance Testing 01/17/02 (02-001) |
| 71111.20 | Refueling and Outage Activities 01/17/02 (02-001) |
| 71111.21 | Safety system Design and Performance Capability 07/10/03 (03-024) |
| 71111.22 | Surveillance Testing 01/17/02 (02-001) |
| 71111.23 | Temporary Plant Modifications 01/17/02 (02-001) |
| 71114 | Reactor Safety-Emergency Preparedness 07/09/02 (02-027) |
| 71114.01 | Exercise Evaluation 07/09/02 (02-027) |
| 71114.02 | Alert and Notification System Testing 07/09/02 (02-027) |
| 71114.03 | Emergency Response Organization Augmentation Testing 07/09/02 (02-027) |
| 71114.04 | Emergency Action Level and Emergency Plan Changes 07/09/02 (02-027) |
| 71114.05 | Correction of emergency Preparedness Weaknesses and Deficiencies 07/09/02 (02-027) |
| 71114.06 | Drill Evaluation 07/09/02 (02-027) |
| 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 01/24/03 (03-001) |
| 71122.02 | Radioactive Material Processing and Transportation 01/24/03 (03-001) |
| 71122.03 | Radiological Environmental Monitoring Program (REMP) 01/24/03 (03-001) |

PART

PROCEDURE

| | |
|----------|--|
| 71130 | Physical Protection 04/03/00 (00-003) |
| 71130.01 | Access Authorization (AA) Program (Behavior Observation Only) 04/05/02 (02-015) |
| 71130.02 | Access Control (Search of Personnel, Packages, and Vehicles Identification and Authorization 04/05/02 (02-015) |
| 71130.03 | Response to Contingency Events (Protective Strategy and Implementation of Protective Strategy) 09/12/00 (00-018) |
| 71130.04 | Security Plan Changes 04/05/02 (02-015) |
| 71150 | Discrepant or Unreported Performance Indicator Data 03/06/01 (01-006) |
| 71151 | Performance Indicator Verification 04/16/02 (02-017) |
| 71152 | Identification and Resolution of Problems 01/17/02 (02-001) |
| 71153 | Event Followup 06/24/03 (03-020) |
| 71707 | Plant Operations 12/31/98 (98-020) |
| 71714 | Cold Weather Preparations 09/17/01 (01-017) |
| 71715 | Sustained Control Room and Plant Observation 04/14/92 (92-004) |
| 71750 | Plant Support Activities 06/24/98 (98-010) |
| 71801 | Decommissioning Performance and Status Review at Permanently Shutdown Reactors 08/11/97 (97-012) |
| 71841 | Human Performance 12/12/00 (00-027) |
| 71846B | Review of Conduct of Operations 10/01/76 (76-24) |

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) |
| 72400B | Overall Startup Test Program 07/01/80 (80-16) |
| 72500B | Initial Fuel Loading Procedure 04/30/75 (75-16) |
| 72502B | Initial Criticality Procedure Review (BWR) 04/30/75 (75-16) |
| 72504B | Heatup 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 |

PART

PROCEDURE

| | |
|--------|--|
| | (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) |
| 72526 | BWR Initial Criticality Witnessing 01/20/84 (84-04) |
| 72532 | Power Level Plateau Data Review (BWR) 01/20/84 (84-04) |
| 72564B | Precritical Test Procedure Review - Protective Trip Circuit or Rod Drop Measurement 07/01/80 (80-16) |
| 72566B | Precritical 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 Outside the Control Room (Group B) 07/01/80 (80-16) |
| 72584B | 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 | Precritical 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 Plateau Data Review (75% PWR) 07/01/80 (80-16) |
| 72624B | Power Level Plateau Data Review (100% PWR) 07/01/80 (80-16) |
| 72701 | Modification Testing 04/14/92 (92-004) |

7300 Inservice Inspection

| | |
|-------|---|
| 73051 | Inservice Inspection - Review of Program 01/14/86 (86-03) |
| 73052 | Inservice Inspection - Review of Procedures 01/14/86 (86-03) |
| 73753 | Inservice Inspection 06/24/98 (98-010) |
| 73755 | Inservice Inspection - Data Review and Evaluation 01/14/86 (86-03) |
| 73756 | Inservice Testing of Pumps and Valves 07/27/95 (95-009) |

PART
PROCEDURE

7400 Reserved

7500 Reserved

7600 Reserved

7700 Reserved

7800 High Level Waste

- 78060 Design Control (Pre-Licensing and Construction)
[04/02/03 (03-008)]
- 78070 Procurement Document Control (Pre-Licensing and Construction)
[04/02/03 (03-008)]
- 78080 Instruction, Procedures, and Drawings (Pre-Licensing and
Construction) [04/02/03 (03-008)]
- 78090 Document Control (Pre-Licensing and Construction)
[04/02/03 (03-008)]
- 78160 Control of Measuring and Test Equipment (Pre-Licensing and
Construction) [04/02/03 (03-008)]
- 78170 Handling, Storage, and Shipping of Materials and Equipment
(Pre-Licensing and Construction) [04/02/03 (03-008)]
- 78200 Corrective Action (Pre-Licensing and Construction)
[04/02/03 (03-008)]

- 78300 Supplier/Vendor Inspection (Pre-Licensing and Construction)
[04/02/03 (03-008)]

7900 Water Chemistry

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

8000 Environmental Protection

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

8100 Physical Security

- 81001 Independent Spent Fuel Storage Installations 09/17/01 (01-017)

PART

PROCEDURE

| | |
|-------|--|
| 81018 | Security Plan and Implementing Procedures 05/09/84 (84-15) |
| 81020 | Management Effectiveness - Security Program 05/09/84 (84-15) |
| 81022 | Security Organization 05/09/84 (84-15) |
| 81034 | Security Program Audit 05/09/84 (84-15) |
| 81038 | Records and Reports 05/09/84 (84-15) |
| 81042 | Testing and Maintenance 05/09/84 (84-15) |
| 81046 | Locks, Keys, and Combinations 05/09/84 (84-15) |
| 81052 | Physical Barriers - Protected Areas 05/09/84 (84-15) |
| 81054 | Physical Barriers - Vital Areas, Material Access Areas, and Controlled Access Areas 05/09/84 (84-15) |
| 81058 | Security System Power Supply 05/09/84 (84-15) |
| 81062 | Lighting 05/09/84 (84-15) |
| 81064 | Compensatory Measures 05/09/84 (84-15) |
| 81066 | Assessment Aids 05/09/84 (84-15) |
| 81070 | Access Control - Personnel 05/09/84 (84-15) |
| 81072 | Access Control (Power Reactor) - Packages 05/09/84 (84-15) |
| 81073 | Access Control (Fuel Facility) - Packages, Material, and SSNM 05/09/84 (84-15) |
| 81074 | Access Control - Vehicles 05/09/84 (84-15) |
| 81078 | Detection Aids - Protected Areas 05/09/84 (84-15) |
| 81080 | Detection Aids - VA, MAA, and CAA 05/09/84 (84-15) |
| 81084 | Alarm Stations 05/09/84 (84-15) |
| 81088 | Communications 05/09/84 (84-15) |
| 81110 | Operational Safeguards Response Evaluation (OSRE) 09/08/00 (00-017) |
| 81310 | Physical Protection of Shipments of Irradiated Fuel 02/20/86 (86-09) |
| 81335 | Physical Protection of Shipments of SNM of Moderate Strategic Significance (MSNM) 02/20/86 (86-09) |
| 81340 | Physical Protection of Shipments of SNM of Low Strategic Significance (LSNM) 02/20/86 (86-09) |
| 81360 | General Requirements for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 08/20/86 (86-40) |
| 81365 | Records, Reports, and Planning for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 08/20/86 (86-40) |
| 81370 | Specific Requirements for Physical Protection of Formula Quantities of Special Nuclear Materials in Transit 08/20/86 (86-40) |
| 81401 | Plans, Procedures, and Reviews 09/17/01 (01-017) |
| 81402 | Reports of Safeguards Events 06/13/85 (85-23) |
| 81403 | Receipt of New Fuel at Reactor Facilities 09/17/01 (01-017) |
| 81411 | Physical Protection for Reactors with Formula |

PART

PROCEDURE

| | |
|-------|--|
| 81421 | Quantities of Special Nuclear Material 11/04/85 (85-34) |
| 81431 | Fixed Site Physical Protection of Special Nuclear Material of Moderate Strategic Significance 06/13/85 (85-23) |
| 81501 | Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance 09/17/01 (01-017) |
| 81502 | Personnel Training and Qualification - General Requirements 05/09/84 (84-15) |
| 81601 | Fitness For Duty Program 05/31/91 (91-008) |
| | Safeguards Contingency Plan - Implementation Review 05/09/84 (84-15) |
| 81700 | Physical Security Program for Power Reactors 07/01/97 (97-010) |
| 81810 | Protection of Safeguards Information 02/09/87 (87-03) |
| 81815 | Authorizations for Access to National Security Information (NSI) and Restricted Data (RD) 04/30/97 (97-005) |
| 81820 | Physical Protection Facility Approval and Safeguarding of National Security Information (NSI) and Restricted Data (RD) 04/30/97 (97-005) |
| 81910 | Alarm Stations 02/19/91 (91-003) |
| 81911 | Assessment 02/19/91 (91-003) |
| 81912 | Badge Control 02/19/91 (91-003) |
| 81913 | Communications 02/19/91 (91-003) |
| 81914 | Duress Alarms 02/19/91 (91-003) |
| 81915 | EECP Machine Performance - Explosive Detectors 02/19/91 (91-003) |
| 81916 | EECP Machine Performance - Metal Detectors 02/19/91 (91-003) |
| 81917 | EECP Machine Performance - X-ray 02/19/91 (91-003) |
| 81918 | Emergency Power Supply 02/19/91 (91-003) |
| 81919 | Interior Alarms 02/19/91 (91-003) |
| 81920 | Intrusion Detection System 02/19/91 (91-003) |
| 81921 | Isolation Zone 02/19/91 (91-003) |
| 81922 | Keys, Locks, and Combinations 02/19/91 (91-003) |
| 81923 | Lighting 02/19/91 (91-003) |
| 81924 | MAA Barriers 02/19/91 (91-003) |
| 81925 | Personnel Searches 02/19/91 (91-003) |
| 81926 | Preventative Maintenance 02/19/91 (91-003) |
| 81927 | Protected Area Barriers 02/19/91 (91-003) |
| 81928 | Protected Area Housekeeping 02/19/91 (91-003) |
| 81929 | Strategic Special Nuclear Material Exit Searches 02/19/91 (91-003) |
| 81930 | Tactical Response Team Exercises 02/19/91 (91-003) |
| 81931 | Vehicle Barriers 02/19/91 (91-003) |

PART

PROCEDURE

- 81932 Vehicle Escorts 02/19/91 (91-003)
- 81933 Vehicle Searches 03/18/91 (91-005)
- 81934 Warehouse Searches 03/18/91 (91-005)
- 81935 Weapons Qualification 02/19/91 91-003)

8200 Emergency Planning

- 82001 Evaluation of Emergency Preparedness 05/22/00 (00-010)
- 82301 Evaluation of Exercises for Power Reactors
12/31/96 (96-024)
- 82302 Review of Exercise Objectives and Scenarios for Power
Reactors 06/24/98 (98-010)
- 82701 Operational Status of the Emergency Preparedness
Program 12/31/96 (96-024)
- 82745 Research Reactor Emergency Plan 08/07/92 (92-009)

8300 Radiation Protection

- 83100 Occupational Exposure During SAFSTOR and DECON
12/30/91 (91-022)
- 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)
- 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 04/17/00 (00-006)
- 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)
- 83743 Class I Non-Power Reactors Radiation Protection
10/03/94 (94-017)

PART

PROCEDURE

83750 Occupational Radiation Exposure 06/06/02 (02-023)
83801 Inspection of Final Surveys at Permanently Shutdown Reactors
01/28/02 (02-003)

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)
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
06/06/02 (02-023)
84900 Low-Level Radioactive Waste Storage 10/20/00 (00-022)

8500 Material Control and Accountability

85102 Material Control and Accounting - Reactors 03/29/85
(85-10)
85200 MC&A for Licensees Possessing Less Than or Equal to
One Effective Kilogram of SNM 04/10/85 (85-15)
85203 Facility Organization and Management Controls
01/17/86 (86-04)
85205 Facility Operations and Internal Controls 04/10/85
(85-15)
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)
85301 MC&A for Imports and Exports 07/18/84 (84-22)
85303 MC&A Management Structure and Personnel Training and
Qualification 03/18/91 (91-005)
85305 Item Monitoring 03/18/91 (91-005)
85307 Process Monitoring 03/18/91 (91-005)
85309 Measurement Systems and Control 03/18/91 (91-005)
85311 Physical Inventory 03/18/91 (91-005)
85313 Alarm Resolution 03/18/91 (91-005)
85315 Accounting and Internal Control 03/18/91 (91-005)
85401 Management Structure 07/22/99 (99-011)

PART

PROCEDURE

85402 Measurement Control 07/22/99 (99-011)
85403 Measurement Control Program 07/22/99 (99-011)
85404 Physical Inventory 10/23/96 (96-021)
85405 Item Control Program 07/22/99 (99-011)
85406 Resolution Program 10/23/96 (96-021)
85407 Assessment Program 07/22/99 (99-011)
85408 Recordkeeping 07/22/99 (99-011)
85420 Inspection of IAEA Safeguards for Inspectors at Power
Reactors 06/22/88 (88-07)

85425 Implementation of US/IAEA Safeguards Agreement at Fuel
Facilities 06/22/88 (88-07)
85501 Inventory Program 07/22/99 (99-011)
85502 Detection Program 07/22/99 (99-011)
85503 Resolution Program 07/22/99 (99-011)

8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

86001 Design, Fabrication, Testing, and Maintenance of
Transportation Packagings 02/07/02 (02-004)
86700 Spent Fuel Pool Activities 09/17/01 (01-017)
86730 Transportation of Radioactive Materials (49 CFR Parts 100-
179 and 10 CFR Part 71) 04/17/00 (00-006)
86740 Inspection of Transportation Activities 04/24/02 (02-020)
86750 Solid Radioactive Waste Management and Transportation
of Radioactive Materials 03/15/94 (94-006)

8700 Materials Safety Inspection

87102 Maintaining Effluents From Materials Facilities As Low As Is
Reasonably Achievable (ALRA) 04/04/00 (00-005)
87103 Inspection of Material Licensees Involved in an Incident or
Bankruptcy Filing 11/03/00 (00-023)
87104 Decommissioning Inspection Procedure for Materials Licensees
07/29/02 (02-029)
87121 Industrial Radiography Programs 12/31/02 (02-047)
87122 Irradiator Programs 12/31/02 (02-047)
87123 Well Logging Programs 12/31/02 (02-047)
87124 Fixed and Portable Gauge Programs 12/31/02 (02-047)
87125 Materials Processor/Manufacturer Programs 12/31/02 (02-047)
87126 Industrial/Academic/Research Programs 12/31/02 (02-047)
87127 Radiopharmacy Programs 12/31/02 (02-047)
87130 Nuclear Medicine Programs, Written Directive Not Required
10/24/02 (02-041)
87131 Nuclear Medicine Programs, Written Directive Required

PART

PROCEDURE

| | |
|-------|--|
| | 10/24/02 (02-041) |
| 87132 | Brachytherapy Programs 10/24/02 (02-041) |
| 87133 | Medical Gamma Stereotactic Radiosurgery and Teletherapy Programs 10/24/02 (02-041) |
| 87134 | Medical Broad Scope Programs 10/24/02 (02-041) |
| 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 12/20/96 (96-025) |
| 88003 | Reactive Inspection For Events At Fuel Cycle Facilities 08/10/98 (98-012) |
| 88005 | Management Organization and Controls 12/20/96 (96-025) |
| 88010 | Operator Training/Retraining 05/23/84 (84-17) |
| 88015 | Headquarters Nuclear Criticality Safety Program 12/20/96 (96-025) |
| 88020 | Regional Criticality Safety Inspection Program 12/20/96 (96-025) |
| 88025 | Maintenance and Surveillance Testing 05/23/84 (84-17) |
| 88035 | Radioactive Waste Management 05/23/84 (84-17) |
| 88045 | Environmental Protection 05/23/84 (84-17) |
| 88050 | Emergency Preparedness 04/08/96 (96-007) |
| 88055 | Fire Protection 01/14/91 (91-001) |
| 88056 | Process Safety Information 01/16/96 (96-001) |
| 88057 | Hazard Identification Information 01/16/96 (96-001) |
| 88058 | Standard Operating Procedures 01/16/96 (96-001) |
| 88059 | Site-Wide Safety Procedures 01/16/96 (96-001) |
| 88060 | Detection and Monitoring 01/16/96 (96-001) |
| 88061 | Chemical Safety Training 01/16/96 (96-001) |
| 88062 | Maintenance and Inspection 01/16/96 (96-001) |
| 88063 | Management of Change 01/16/96 (96-001) |
| 88064 | Emergency Response Procedures 01/16/96 (96-001) |
| 88065 | Incident Investigation 01/16/96 (96-001) |
| 88066 | Audits and Inspection 01/16/96 (96-001) |
| 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 |

PART

PROCEDURE

- 88105 Facilities 07/03/02 (02-026)
Management Organization and Controls 12/30/96 (96-026)

- 8900 Fuel Facility and Materials Special Program
 - 89001 In-Situ Leach (ISL) Facilities 09/02/97 (97-013)

- 9000 Reportable Matters and Report Reviews
 - 90501B Reportable Matters - Startup Test Program 04/30/75
(75-16)
 - 90712 Inoffice Review of Written Reports of Nonroutine Events
at Power Reactor Facilities 12/31/98 (98-020)
 - 90713 In Office Review of Periodic and Special Reports
09/17/01 (01-017)
 - 90714 Nonroutine Reporting Program 09/17/01 (01-017)

- 9100 Title 10 Requirements

- 9200 Planned Non-Routine Activities
 - 92050 Review of Quality Assurance For Extended Construction
Delay 04/04/00 (00-005)
 - 92700 Onsite Followup of Written Reports of Nonroutine Events
at Power Reactor Facilities 12/31/98 (98-020)
 - 92701 Followup 03/14/94 (94-005)
 - 92702 Followup on Corrective Actions for Violations and Deviations
03/14/94 (94-005)
 - 92703 Followup of Confirmatory Action Letters 11/08/01 (01-025)
 - 92709 Licensee Plans for Coping With Strikes 08/21/92 (92-010)
 - 92711 Continued Implementation of Strike Plans During an Extended
Strike 08/21/92 (92-010)
 - 92712 Resumption of Normal Operations After a Strike
08/21/92 (92-010)

 - 92901 Followup - Plant Operations 09/17/01 (01-017)
 - 92902 Followup - Maintenance 09/17/01 (01-017)
 - 92903 Followup - Engineering 09/17/01 (01-017)
 - 92904 Followup - Plant Support 09/17/01 (01-017)

PART

PROCEDURE

9300 Non-Routine Activities

- 93001 OHSA Interface Activities 05/22/89 (89-009)
- 93702 Prompt Onsite Response To Events At Operating Power Reactors 09/17/01 (01-017)
- 93800 Augmented Inspection Team 10/23/02 (02-039)
- 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)
- 93809 Safety System Engineering Inspection (SSEI) 06/23/97 (97-009)
- 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 07/07/03 (03-023)

9400 Technical Activities of an Administrative Nature

9500 Strategic Determination Actions

- 95001 Inspection for One or Two White Inputs in a Strategic Performance Area 05/23/03 (03-016)
- 95002 Inspection for One Degraded Cornerstone or Any three White Inputs in a Strategic Performance Area 05/23/03 (03-016)
- 95003 Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or One Red Input 01/17/02 (02-001)

9600 Reserved

9700 Reserved

PART
PROCEDURE

9800 Reserved

PART

TECHNICAL GUIDANCE

9900 Guidance²

| | |
|-------|--|
| 99000 | Technical Guidance 05/12/86 (86-26) |
| 99100 | Health Physics Positions 10/30/92 (92-011) |

Technical Guidance

| | |
|-------------------|--|
| Reg. Guide 1.16, | Para. C.2.a(2) and C.2.b(2) - Reporting Requirements - Degraded Mode 04/01/79 (79-05) |
| Reg. Guide 1.16, | Para. C.2.a(3) - Reporting Requirements - Abnormal Degradation 04/01/78 (78-11) |
| Reg. Guide 1.16, | Para. C.2.a(4) - Reporting Requirements - Reactivity Anomalies 07/01/78 (78-24) |
| Reg. Guide 1.33 - | "Procedure Implementation" as used in Section 6.8.1 of Standard Technical Specifications 04/01/77 (77-05) |
| Reg. Guide 1.58 - | Qualifications of Nuclear Power Plant Inspection, Examination and Testing Personnel 04/01/77 (77-05) |
| 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 IX | American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section IX 05/12/86 (86-26) |
| 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) |
| IEEE | Institute of Electrical and Electronic Engineers IEEE Standard 450-1975 05/12/86 (86-26) |
| ANSI | American National Standards Institute ANSI N18.7-1972 Section 5.1.5 05/12/86 (86-26) |
| ANSI | ANSI N18.7, Section 5.2.7 - Design and Construction Type |

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

PART

TECHNICAL GUIDANCE

Activities Conducted During the Operations Phase
(Maintenance and Modifications) 04/01/77 (77-05)

| | |
|----------------------------|---|
| ANSI | ANSI N45.2.9, Section 5.5 - Records Storage Facility 1/01/82 (81-28) |
| ANSI | ANSI N45.2.9, Section 5.6 - NRC Criteria for Records Storage Facilities 07/01/80 (80-17) |
| ANSI | ANSI/ASME NQA-1-1989, Supplement 17S-1, Section 5 09/17/90 (CN-010) (90-010) |
| STS Sec 1.0 | Operability 05/12/86 (86-26) |
| STS Sec 1.0 | Definitions 12/08/86 (86-54) |
| STS Sec 1.0 | Operable/Operability 10/31/91 (91-015) |
| STS Sec 3.0 | Acceptable Measurement Tolerances for Technical Specification Limits 10/01/78 (78-35) |
| STS Sec 3.0 | Operability and Action Statement Requirements 07/01/80 (80-17) |
| STS Sec 3.0 | Voluntary Entry Into Action Statement 01/01/82 (81-28) |
| STS Sec 3.0 | Resolution of Degraded and Nonconforming Conditions 10/23/97 (97-018) [STS30DEG.TG] |
| STS Sec 3.0.3 | Limiting Conditions for Operations 08/31/87 (87-30) |
| STS Sec 3.0 and Sec 4.0 | Limiting Conditions for Operation and Surveillance Requirements 07/22/87 (87-26) |
| STS Sec 3/4.6.4 | Containment and Drywell Isolation Valves 06/09/88 (88-06) |
| STS Sec 3.7.5 | Ultimate Heat Sink 11/25/88 (88-17) |
| STS Sec 3/4.8.1 | TDI Diesel Generator Air Roll Tests 06/09/88 (88-06) |
| STS Sec 4.2.8.X.X | Surveillance Requirements - 125-Volt Battery Bank 10/01/79 (79-22) |
| STS Sec 4.5.1 | Standard Technical Specifications (BWR) 05/12/86 (86-26) |
| STS Sec 4.7.9 | Surveillance of Snubber Piston Settings 04/01/81 (81-08) |

PART

TECHNICAL GUIDANCE

| | |
|---------------------------------|--|
| STS Sec 4.7.9.1.a | Establishment of Visual Inspection Intervals for Snubbers 10/01/78 (78-35) |
| STS Sec 4.7.9.1(a) | Hydraulic Snubber Inspection Schedule 01/01/79 (78-48) |
| STS Sec 4.7.9.6 | Operability of Hydraulic Snubbers With Empty Reservoirs 10/01/80 (80-24) |
| | |
| STS Sec 4.8.1.1.2 | - 05/12/86 (86-26) |
| STS Sec 6.5.1 | Onsite Committee Review of Unit Operations to Detect Potential Nuclear Safety Hazards 10/01/80 (80-24) |
| STS Sec 6.5.1.1 | Licensee Review Responsibility for Matters Related to Nuclear Safety 01/01/82 (81-28) |
| STS Sec 6.5.1.6c and Sec 6.5 | Licensee Review Responsibility for Proposed Changes to Facility Technical Specifications 01/01/82 (81-28) |
| STS Sec 6.5.2.8 | Requirements for Off-Site Committee Audit Functions 10/01/78 (78-35) |
| STS Sec 6.9.1.7 | Reporting Requirements - Reportable Occurrences 04/01/78 (78-11) |
| STS | Surveillance Sections - Locked or Otherwise Secured Components 10/01/77 (77-25) |
| STS Interp | Licensee Technical Specification Interpretations 02/03/97 (97-001) |

Maintenance

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

PART
TECHNICAL GUIDANCE

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 10/11/01 (01-021)
[SGTUBELKG.TG]

Operations

Procedural Adherence 01/14/91 (91-001)

Notice of Enforcement Discretion 11/02/01 (01-024)
[TG OpsNOED.wpd]

Notice of Enforcement Discretion For Gaseous Diffusion Plants
05/03/99 (99-008) [NOEDGAS.TG]

Safety and Compliance 09/09/97 (97-015) [SAFETY.TG]

PART

10 CFR GUIDANCE

10 CFR GUIDANCE

| | |
|----------------|--|
| | CFR Discussions Containment Integrated Leak Rate Testing 12/08/86 (86-54) |
| | Title 10 of the Code of Federal Regulations 12/08/86 (86-54) |
| 10 CFR 30 | License Condition, "Used by or under the supervision of...." 10/01/79 (79-23) |
| 50 | Byproduct Material Produced in Non-Power Reactors 09/30/88 (88-14) |
| 50.34(a) & (b) | Status of PSAR After FSAR is Submitted 12/30/87 (87-39) |
| 50.36 | Changes to Facility Technical Specifications 01/01/77 (76-39) |
| 50.54(o) | Guidance Relating to the Application of Appendix J -Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors 04/01/78 (78-11) |
| 50.55(e) | Construction Deficiency Reporting 01/31/89 (89-002) |
| 50.55a | Codes and Standards 02/22/73 (73-9) |
| 50.55a(g) | Pump Operability Requirements 07/01/80 (80-17) |
| 50.59 | 10 CFR 50.59, Changes, Tests, and Experiments 03/13/01 (01-008) [50_59.CFR] |
| 50.109 | Backfitting 01/01/82 (81-28) |
| Part 50, App A | Definition of Leak-Before-Break Analysis 09/26/96 (96-020) |
| Part 50, App B | Responsibility - Review and Approval of Licensee QA Plans for Operation, 10/01/80 (80-24) |
| Part 50, App B | Applicability of Appendix B to Chemicals and Reagents, 04/01/77 (77-05) |
| Part 50, App B | Criterion II - Maintenance of Proficiency for Personnel Performing Activities Affecting Quality 07/01/81 (81-19) |
| Part 50, App B | Criterion VII - Guidance - Use of Certificate of Conformance 04/01/80 (80-08) |
| Part 50, App B | Criterion VII - Guidance - Procurement of Spare and Replacement Parts, 01/01/82 (81-28) |

PART

10 CFR GUIDANCE

Part 50, App B Criterion VII - Control of Purchased Materials, Equipment and Services 06/02/71 (71-16)

Part 50, App B Criterion X & XVII - Inspection Documentation Guidance 01/14/88 (88-01)

Part 50 Appendix J, Containment Integrated Leak Rate Testing 12/08/86 (86-54)

70.51 Material Balance, Inventory, and Records Requirements 12/19/74 (74-11)

70.52 Report of Accidental Criticality or Loss of Special Nuclear Material 11/15/74 (74-010)

Interpretations

Materials License Conditions - Interpretations 05/12/71 (71-12)

END