

# NRC INSPECTION MANUAL

IIPB

---

## TABLE OF CONTENTS

---

Table of Contents Current through Change Notice 04-007 Issued 02/19/04

### PART

#### CHAPTER

0000	<u>NRC Inspection Manual</u> <sup>1</sup>
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 02/02/04 (04-003)
0100	<u>Program Responsibilities</u>
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	<u>Program Management Reports</u>
0230	Morning Report 11/18/02 (02-043)
0300	<u>Inspection Policy</u>
0300	Announced and Unannounced Inspections 03/24/94 (94-010)
0301	Coordination of NRC Visits to Commercial Reactor Sites 08/24/01 (01-016)
0303	Item Reporting 11/30/99 (99-019)
0305	Operating Reactor Assessment Program 01/29/04 (04-002)
0306	Information Technology Support For The Reactor Oversight Process 06/24/03 (03-021)
0307	Reactor Oversight Process Self-Assessment Program 01/14/04 (04-001)
0308	Reactor Oversight Process Basis Document 02/21/03 (03-006)
0309	Reactive Inspection Decision Basis For Reactors 11/05/03 (03-036)
0312	Technical Assistance for Radiation Safety Inspections at Nuclear Fuel Cycle Facilities and Materials Licensees' Sites 06/06/02 (02-023)

---

<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**

0330 Guidance for NRC Review of Licensee Draft Documents 07/08/96  
(96-015)

0350 Oversight of Operating Reactor Facilities in a Shutdown Condition  
With Performance Problems 12/31/03 (03-042)

0400 Enforcement Policy

0500 Tracking Systems

0600 Documentation of Program Findings

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 12/16/03 (03-041)

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 01/14/04 (04-001)

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)

**PART**

**CHAPTER**

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	<u>Communications With Licensees</u>
0730	Generic Communications Regarding Materials and Fuel Cycle Issues 10/22/02 (02-040)
0800	<u>Feedback - Improving the Regulatory Process</u>
0801	Reactor Oversight Process Feedback Program 03/05/02 (02-007)
0900	<u>Reporting of Events/Incidents</u>
0970	Potentially Generic Questions Identified by Regional Offices 12/11/00 (00-024)
1000	<u>Regional Office Program Interfaces</u>
1007	Interfacing Activities Between Regional Offices of NRC and OSHA 02/07/02 (02-004)
1100	<u>Notifications of Meetings and Conferences</u>
1120	Preliminary Notifications 12/16/03 (03-041)
1200	<u>Inspector Requirements</u>
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)

**PART**

**CHAPTER**

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)

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)

**PART**

**CHAPTER**

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 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)

**PART**

**CHAPTER**

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	<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 06/24/03 (03-020)
1700	<u>Reserved</u>
1800	<u>Reserved</u>
1900	<u>Reserved</u>
2000	<u>Reserved</u>
2500/020	Inspection to Determine Compliance with ATWS Rule 10 CFR 50.62 08/06/03 (03-028)
2100	<u>Reserved</u>
2200	<u>Reserved</u>
2201	Security and Safeguards Inspection Program For Commercial Power Reactors 02/19/04 (04-007)
2201 App A	Security and Safeguards Baseline Inspection Program 02/19/04 (04-007)
2201 App B	Supplemental Inspection Program 02/19/04 (04-007)
2201 App C	Generic, Special, and Infrequent Inspections 02/19/04 (04-007)
2201 App D	Facility Status Reviews 02/19/04 (04-007)

**PART**

**CHAPTER**

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  
09/08/03 (03-032)  
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  
02/02/04 (04-003)  
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 09/09/03 (03-033)  
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 (03-009)  
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)  
2515/151 Expanded Pilot Force-on-Force Exercise Evaluation  
02/06/03 (03-002)  
2515/152 Reactor Pressure Vessel Lower Head Penetration Nozzles  
Rev. 1 (NRC Bulletin 2003-02) 11/05/03 (03-036)  
2515/153 Reactor Containment Sump Blockage (NRC Bulletin 2003-01)  
10/03/03 (03-035)  
2515/154 Spent Fuel Material Control and Accounting at Nuclear Power  
Plants 11/26/03 (03-038)  
2515/155 Mark I and Mark II Containment Vulnerabilities  
12/12/03 (03-040) Note: TI withheld from public disclosure since  
it contains sensitive security information.

**PART**

**CHAPTER**

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 02/03/04 (04-004)
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	<u>Fuel Cycle Facility Inspection Program</u>
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)
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 <sub>6</sub> 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)



**PART**

**CHAPTER**

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)
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 11/25/03 (03-037)
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)
2800/034	Inspection of Panoramic and Underwater Irradiators Additional Security Measures 02/12/04 (04-005)
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	<u>Performance Appraisal Program</u>
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)

**PART**

**PROCEDURE**

3000 Management Meetings

30800B 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)

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)

**PART**

**PROCEDURE**

3800 Procurement

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

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)  
40500 Effectiveness of Licensee Process to Identify, Resolve, and  
Prevent Problems 05/03/99 (99-008)  
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)

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

4700 Containment (Post-Tensioning)

4800 Structural Steel and Supports

**PART**

**PROCEDURE**

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)
- 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)

## **PART**

### **PROCEDURE**

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)  
60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors  
08/11/97 (97-012)  
60851 Design Control of ISFSI Components 08/08/03 (03-030)  
60852 ISFSI Component Fabrication By Outside Fabricators  
08/08/03 (03-030)  
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)  
60854.1 Preoperational Testing of Independent Spent Fuel Storage  
Facility Installation at Operating Plants 02/02/04 (04-003)  
60855 Operation of an ISFSI 03/28/02 (02-012)  
60855.1 Operation of an Independent Spent Fuel Storage Installation at  
Operating Plants 02/02/04 (04-003)  
60856 Review of 10 CFR 72.212(b) Evaluations 04/02/03 (03-008)  
60856.1 Review of 10 CFR 72.212(b) Evaluations at Operating Plants  
02/02/04 (04-003)  
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)  
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)

**PART**

**PROCEDURE**

- 61726 Surveillance Observations 06/24/98 (98-010)
- 61728 Independent Measurement of RCS Leak Rates for a PWR  
01/01/84 (84-02)

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

6700 Reserved

6800 Reserved

6900 Non-Power Reactor Inspection

- 69001 Class II Research and Test Reactors 02/03/04 (04-004)
- 69002 Class III Research and Test Reactors 02/03/04 (04-004)
- 69003 Class I Research and Test Reactor Operator Licenses,  
Requalification, and Medical Examinations 02/03/04 (04-004)
- 69004 Class I Research and Test Reactor Effluent and Environmental  
Monitoring 02/03/04 (04-004)
- 69005 Class I Research and Test Reactor Experiments 02/03/04 (04-004)
- 69006 Class I Research and Test Reactors Organization and Operations  
and Maintenance Activities 02/03/04 (04-004)

## **PART**

### **PROCEDURE**

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)
69009	Class I Research and Test Reactor Fuel Movement 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 02/03/04 (04-004)
69012	Class I Research and Test Reactors Radiation Protection 02/03/04 (04-004)
69013	Research and Test Reactor Decommissioning 02/03/04 (04-004)

### 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)
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 09/09/03 (03-033)

## **PART**

### **PROCEDURE**

71111.11	Licensed Operator Requalification Program 12/16/03 (03-041)
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 02/02/04 (04-003)
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 11/05/03 (03-036)
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)
71130	Physical Protection 02/19/04 (04-007)
71130.01	Access Authorization 02/19/04 (04-007)
71130.02	Access Control 02/16/04 (04-007)
71130.03	Response to Contingency Events (Protective Strategy and Implementation of Protective Strategy) 09/12/00 (00-018)
71130.04	Equipment Performance, Testing Maintenance 02/19/04 (04-007)
71130.05	Protective Strategy Evaluation 02/19/04 (04-007)
71130.06	Inspection of Security Plan Changes 02/19/04 (04-007)
71130.07	Security Training 02/19/04 (04-007)
71130.08	Fitness For Duty Training 02/19/04 (04-007)
71130.09	Owner-Controlled Area Controls 02/19/04 (04-007)
71150	Discrepant or Unreported Performance Indicator Data 03/06/01 (01-006)
71151	Performance Indicator Verification 12/16/03 (03-041)
71152	Identification and Resolution of Problems 09/08/03 (03-032)



## **PART**

### **PROCEDURE**

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 (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 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)

**PART**

**PROCEDURE**

- 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)

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)]

## **PART**

### **PROCEDURE**

- 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)
  - 81001.1 Independent Spent Fuel Storage Installation(s) at Operating Plants 02/02/04 (04-003)
  - 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)

## **PART**

### **PROCEDURE**

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 Quantities of Special Nuclear Material 11/04/85 (85-34)
81421	Fixed Site Physical Protection of Special Nuclear Material of Moderate Strategic Significance 06/13/85 (85-23)
81431	Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance 09/17/01 (01-017)
81501	Personnel Training and Qualification - General Requirements 05/09/84 (84-15)
81502	Fitness For Duty Program 05/31/91 (91-008)
81601	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)

## **PART**

### **PROCEDURE**

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)
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)

#### 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 12/16/03 (03-041)
83724	External Occupational Exposure Control and Personal Dosimetry 04/17/00 (00-006)
83725	Internal Exposure Control and Assessment 04/17/00 (00-006)
83726	Control of Radioactive Materials and Contamination, Surveys, and Monitoring 09/17/01 (01-017)

**PART**

**PROCEDURE**

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)
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)
85402	Measurement Control 07/22/99 (99-011)

## **PART**

### **PROCEDURE**

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 11/25/03 (03-037)
87124	Fixed and Portable Gauge Programs 11/25/03 (03-037)
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)
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 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)

**PART**

**PROCEDURE**

- 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 Facilities 07/03/02 (02-026)
- 88105 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)



## **PART**

### **PROCEDURE**

- 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)
  
- 9300 Non-Routine Activities
  - 93001 OSHA 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)

**PART**

**PROCEDURE**

- 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
  
- 9800 Reserved

## **PART**

### **TECHNICAL GUIDANCE**

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

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

---

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

## **PART**

### **TECHNICAL GUIDANCE**

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)
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)

## **PART**

### **TECHNICAL GUIDANCE**

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    Licensee Review Responsibility for Proposed Changes to Facility Technical Specifications 01/01/82 (81-28)  
and Sec 6.5

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]

### **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)  
[TG\_Mech SGTUBELKG.wpd]

### **Operations**

**PART**

**TECHNICAL GUIDANCE**

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 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

**PART**

**10 CFR 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