

# NRC INSPECTION MANUAL

IIPB

---

## TABLE OF CONTENTS

---

Table of Contents Current through Change Notice 05-023 Issued 08/22/05

### PART

#### CHAPTER

- 0000 NRC Inspection Manual<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 Program Responsibilities
  - 0102 Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities 08/22/05 (05-023)
  - 0111 Monitoring Activities for the DOE West Valley Demonstration Project 03/04/02 (02-006)
  
- 0200 Program Management Reports
  - 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)
  - 0303 Item Reporting 11/30/99 (99-019)
  - 0305 Operating Reactor Assessment Program 12/21/04 (04-028)
  - 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 (ROP) Basis Document 07/28/05 (05-022)
  - 0308, Att 1 Technical Basis for Performance Indicators 10/06/04 (04-025)
  - 0308, Att 2 Technical Basis for Inspection Program 07/28/05 (05-022)
  - 0308, Att 3 Technical Basis for Significance Determination Process 07/28/05 (05-022)
  - 0308, Att 3, App A Technical Basis for At Power Significance Determination

---

<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**

	Process 07/27/04 (04-020)
0308, Att 3, App B	Technical Basis for Emergency Preparedness Significance Determination Process 07/28/05 (05-022)
0308, Att 3, App C	Technical Basis for Occupational Radiation Safety Significance Determination Process 07/28/05 (05-022)
0308, Att 3, App D	Technical Basis for Public Radiation Safety Significance Determination Process 07/27/04 (04-020)
0308, Att 3, App F	Technical Basis for Fire Protection Significance Determination Process [IMC 0609, Appendix F] At Power Operations 02/28/05 (05-007)
0308, Att 3, App G	Technical Basis for Shutdown Operations Significance Determination Process 02/28/05 (05-007)
0308, Att 3, App H	Technical Basis for Containment Integrity Significance Determination Process 05/06/04 (04-010)
0308, Att 3, App I	Technical Basis for Operator Requalification Human Performance Significance Determination Process 07/28/05 (05-022)
0308, Att 3, App J	Technical Basis for Steam Generator Tube Integrity Findings Significance Determination Process 05/06/04 (04-010)
0308, Att 3, App K	Technical Basis for Maintenance Risk Assessment and Risk Management SDP 05/19/05 (05-014)
0308, Att 4	Technical Basis for Assessment 07/28/05 (05-022)
0308, Att 5	Technical Basis for Enforcement 07/28/05 (05-022)
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)
0320	Operating Reactor Security Oversight Process 08/22/05 (05-023)
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 06/06/05 (05-015)
0400	<u>Enforcement Policy</u>
0500	<u>Tracking Systems</u>
0600	<u>Documentation of Program Findings</u>
0608	Performance Indicator Program 12/01/04 (04-027)
0609	Significance Determination Process 05/19/05 (05-014)
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	Determining the Significance of Reactor Inspection Findings for At-Power Situations 12/01/04 (04-027)
0609 App B	Emergency Preparedness Significance Determination Process

**PART**

**CHAPTER**

	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	Baseline Physical Protection Significance Determination Process 07/21/05 (05-020)
0609 App E Part I	Baseline Physical Protection Significance Determination Process 07/21/05 (05-020)
0609 App E Part II	Force-on-Force Physical Protection Significance Determination Process 07/21/05 (05-020)
0609 App F	Fire Protection Significance Determination Process 02/28/05 (05-007)
0609, App F, Att 1	Part 1: Fire Protection SDP Phase 1 Worksheet 02/28/05 (05-007)
0609, App F, Att 2	Degradation Rating Guidance Specific to Various Fire Protection Program Elements 02/28/05 (05-007)
0609, App F, Att 3	Guidance for Identifying Fire Growth and Damage Scenarios 02/28/05 (05-007)
0609, App F, Att 4	Fire Ignition Source Mapping Information: Fire Frequency, Counting Instructions, Applicable Fire Severity Characteristics, and Applicable Manual Fire Suppression Curves 02/28/05 (05-007)
0609, App F, Att 5	Characterizing Non-Simple Fire Ignition Sources 02/28/05 (05-007)
0609, App F, Att 6	Guidance for the Identification of Targets and Their Ignition and Damage Criteria 02/28/05 (05-007)
0609, App F, Att 7	Guidance for Fire Growth and Damage Time Analysis 02/28/05 (05-007)
0609, App F, Att 8	Guidance for Fire Non-Suppression Probability Analysis 02/28/05 (05-007)
0609 App G	Shutdown Operations Significance Determination Process 02/28/05 (05-007)
0609, App G, Att 1	Shutdown Operations Significance Determination Process Phase 1 Operational Checklists for Both PWRs and BWRs 05/25/04 (04-015)
0609, App G, Att 2	Phase 2 Significance Determination Process Template for PWR During Shutdown 02/28/05 (05-007)
0609, App G, Att 3	Phase 2 Significance Determination Process Template for BWR During Shutdown 02/28/05 (05-007)
0609 App H	Containment Integrity Significance Determination Process 05/06/04 (04-010)
0609 App I	Operator Requalification Human Performance Significance Determination Process [SDP] 08/22/05 (05-023)
0609 App J	Steam Generator Tube Integrity Findings Significance Determination Process 05/06/04 (04-010)
0609 App K	Maintenance Risk Assessment and Risk Management Significance Determination Process 05/19/05 (05-014)
0610	Inspection Reports 05/18/04 (04-014)
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)

**PART**

**CHAPTER**

0612, App A List of Acronyms Used in IMC 0612 06/20/03 (03-021)  
0612, App B Issue Screening 05/19/05 (05-014)  
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 05/19/05 (05-014)  
0615 Research and Test Reactor Inspection Reports  
06/23/04 (04-018)  
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

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 01/27/05 (05-004)

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 02/11/04 (04-006)

1100 Notifications of Meetings and Conferences

1120 Preliminary Notifications 12/16/03 (03-041)

1200 Inspector Requirements

1201 Conduct of Employees 06/29/99 (99-010)  
1202 Senior Resident Inspector Site Turnover 08/22/05 (05-023)  
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)

**PART**  
**CHAPTER**

1220, App II	Procedures Letter to be Sent to Licensees With Procedures and Information for Filing NRC Form 241 05/01/03 (03-013)
0220. App III	Inspection of Agreement State Licensees 05/01/03 (03-013)
1230	Quality Assurance Program for Radiological Confirmatory Measurements 10/01/83 (83-12)
1232	Collection, Preparation, and Shipment of Independent Measurement Samples 11/18/86 (86-52)
1240	Unescorted Access At Power Reactors 12/01/04 (04-027)
1245	Qualification Program For the Office of Nuclear Reactor Regulation Programs 06/29/04 (04-019)
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 Att 3	General Orientation Topics 04/05/02 (02-014)
1245 App A	Basic-level Training and Certification Journal 08/24/04 (04-022)
1245 App B	General Proficiency-Level Training and Qualification Journal 06/29/04 (04-019)
1245 App C1	Reactor Operations Inspector Technical Proficiency Training and Qualification Journal 08/24/04 (04-022)
1245 App C2	Reactor Engineering Inspection Technical Proficiency Training and Qualification Journal 08/24/04 (04-022)
1245 App C3	Health Physics Inspector Technical Proficiency Training and Qualification Journal 08/24/04 (04-022)
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 App C6	Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 08/24/04 (04-022)
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 App C10	Operator Licensing (OL) Examiner Technical Proficiency Training and Qualification Journal 08/24/04 (04-022)
1245 D1	Senior Reactor Analyst Training and Qualification Program 02/18/05 (05-006)
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 Spent Fuel Project Office Qualification Journal 01/26/05 (05-002)
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)



**PART**

**CHAPTER**

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)
Sec. XVI	Training Requirements for Sealed Source and Device Reviewers 02/11/04 (04-006)
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)
Sec. XVI	Technical Reviewer Qualification Journal Byproduct Material Sealed Source and Device Reviewers 02/11/04 (04-006)

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 07/14/05 (05-019)
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 10/06/04 (04-025)
1360	Use of Physician and Scientific Consultants in the Medical Consultant Program 04/24/02 (02-020)

**PART**  
**CHAPTER**

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 07/07/05 (05-018)

1700 Reserved

1800 Reserved

1900 Reserved

2000 Reserved

2100 Reserved

2200 Nuclear Security and Incident Response

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)

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)

**PART**

**CHAPTER**

2500 Reactor Inspection Program

2500/020	Inspection to Determine Compliance with ATWS Rule 10 CFR 50.62 08/06/03 (03-028)
2501	Nuclear Reactor Inspection Program - Early Site Permit) 05/29/03 (03-018)
2502	Construction Inspection Program: Pre-Combined License (Pre- COL) Phase 06/22/05 (05-016)
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	Light Water Inspection Program - Operations Phase 07/28/05 (05-022)
2515 App A	Risk-Informed Baseline Inspection Program 01/17/02 (02-001)
2515 App B	Supplemental Inspection Program 03/23/05 (05-008)
2515 App C	Special and Infrequently Performed Inspections 07/07/05 (05-018)
2515 App D	Plant Status 01/26/05 (05-003)
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. 3 Nozzles (NRC Order EA-03-009) 02/18/05 (05-006)
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) Rev. 1 02/18/05 (05-006)
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.
2515/156	Offsite Power System Operational Readiness 04/29/04 (04-009)
2515/157	Mark I and Mark II Containment Operations 05/06/04 (04-012) Note: TI withheld from public disclosure since it contains sensitive security information
2515/158	Functional Review of Low Margin/Risk Significant Components and Human Actions 06/14/04 (04-017)
2515/159	Review of Generic Letter 89-13: Service Water System Problems Affecting Safety-Related Equipment 07/29/04 (04-021)
2515/160	Pressurizer Penetration Nozzles and Steam Space Piping Connections in U.S. Pressurized Water Reactors (NRC Bulletin 2004-01) 10/06/04 (04-025)



**PART**

**CHAPTER**

2515/161	Transportation of Reactor Control Rod Drives in Type A Packages 03/30/05 (05-009)
2515/162	SAFEGUARDS INFORMATION 04/13/05 (05-010)
2515/163	Operational Readiness of Offsite Power 05/02/05 (05-011)
2515/164	Inspection of Nuclear Reactor Safeguards Interim Compensatory Measures - Section B.5.b of the February 25, 2002, Order [SAFEGUARDS INFORMATION] 06/28/05 (05-017)
2516	Policy and Guidance For The License Renewal Inspection Programs 02/18/05 (05-006)
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 06/23/04 (04-018)
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 07/29/04 (04-021)
2600/006	Resident Inspector Program for Category I Fuel Cycle Facilities 07/29/04 (04-021)
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)
2600/011	Verification of Disposition of Potentially Defective 1-Inch Hunt Valves for Uranium Hexafluoride Cylinders 01/05/05 (05-001)
2601	Team Assessments of Fuel Cycle and Materials Licensees 05/04/90 (90-004)
2602	Decommissioning Oversight and Inspection Program For Fuel Cycle Facilities and Materials Licensees 08/22/05 (05-023)
2603	Inspection of the Nuclear Chemical Process Safety Program at Fuel Cycle Facilities 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	Mixed Oxide Fuel Fabrication Facility Construction Inspection Program 05/18/05 (05-0013)
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)
2681/007	Inspection of Safeguards Interim Compensatory Measures at

**PART**

**CHAPTER**

	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 07/14/05 (05-019)
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)
2800/030	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)
2800/035	Verification of Licensee Responses to NRC Bulletin 2003-04 Regarding Inventories of Source and Special Nuclear Materials Tracked in the Nuclear Materials Management and Safeguards System 07/29/04 (04-021)
2800/036	Inspection of Manufacturing and Distribution Licensees 09/13/04 (04-024)
2800/037	Safety Procedures For Panoramic Irradiators 07/14/05 (05-019)
Rev. 1	
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)
3000	<u>Management Meetings</u>
30800B	Initial Management Meeting - Materials Licensees 10/01/76 (76-26)

**PART**  
**PROCEDURE**

3100 Reserved

3200 Reserved

3300 Reserved

3400 Reserved

3500 Quality Assurance

- 35002 Early Site Permit Pre-Docketing Quality Assurance Controls Meeting 05/29/03 (03-018)
- 35004 Pre-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
- 35005 Pre-Docketing Combined License Quality Assurance Controls Inspection 06/22/05 (05-016)
- 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)
- 35017 Post-Docketing Development of the Quality Assurance (QA) Program for Design and Procurement Activities 06/22/05 (05-016)
- 35020 Inspection of Applicant's Surveillance of Contractor Quality Assurance (QA) Activities 06/22/05 (05-016)
- 35021 Post-Docketing Implementation of Quality Assurance (QA) Activities Related to Design, Procurement and Construction 06/22/05 (05-016)
- 35029 Pre-Combined License (COL) Quality Assurance (QA) Inspection of Site Limited Work Authorization (LWA) 1 & 2 Activities 06/22/05 (05-016)
- 35100 Review of the QA Manual 06/22/05 (05-016)
- 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 Inspection of 10 CFR Parts 21 and 50.55(e) Programs for Reporting Defects and Noncompliance 06/22/05 (05-016)
- 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)

**PART**

**PROCEDURE**

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)  
37802 First-of-a-Kind Engineering Inspections 06/22/05 (05-016)

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

**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)

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

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)

**PART**  
**PROCEDURE**

5600 Calibration

56700 Calibration 03/23/05 (05-008)

5700 Nondestructive Examination, Destructive Examination and Fabrication Testing

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

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 02/11/04 (04-006)  
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 01/26/05 (05-002)

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)



**PART**

**PROCEDURE**

- 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)

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

**PART**

**PROCEDURE**

	Monitoring 02/03/047 (04-004)
69005	Class I Research and Test Reactor Experiments 02/03/04 (04-004)
69006	Class I Research and Test Reactors Organization and Operations and Maintenance Activities 02/03/04 (04-004)
69007	Class I Research and Test Reactor Review and Audit and Design Change Functions 02/03/04 (04-004)
69008	Class I Research and Test Reactor Procedures 02/03/04 (04-004)
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 02/18/05 (05-006)
71003	Post-Approval Site Inspection for License Renewal 02/18/05 (05-006)
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 04/13/04 (04-008)
71111.02	Evaluation of changes, Tests, or Experiments 07/07/03 (03-023)
71111.04	Equipment Alignment 01/17/02 (02-001)
71111.05AQ	Fire Protection (Annual / Quarterly) 07/07/04 (05-018)
71111.05T	Fire Protection (Triennial) 02/18/05 (05-006)
71111.06	Flood Protection Measures 01/17/02 (02-001)

## PART

### PROCEDURE

71111.07	Heat Sink Performance 06/06/05 (05-015)
71111.08	Inservice Inspection Activities 05/11/04 (04-013)
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 07/07/05 (05-018)
71111.19	Post Maintenance Testing 01/17/02 (02-001)
71111.20	Refueling and Outage Activities 05/06/04 (04-011)
71111.21	Safety System Design and Performance Capability 04/13/04 (04-008)
71111.22	Surveillance Testing 05/11/04 (04-013)
71111.23	Temporary Plant Modifications 06/06/05 (05-015)
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 07/28/05 (05-021)
71130.02	Access Control 02/16/04 (04-007)
71130.03	Contingency Response - Force-On-Force Testing 11/10/04 (04-026)
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 06/06/05 (05-015)
71151	Performance Indicator Verification 10/06/04 (04-025)
71152	Identification and Resolution of Problems 09/08/03 (03-032)
71153	Event Followup 06/24/03 (03-020)

## PART

### PROCEDURE

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 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)

**PART**

**PROCEDURE**

- 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)]
- 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)]



**PART**

**PROCEDURE**

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	<u>Water Chemistry</u>
79702	Control and monitoring of Radiological Source Term 04/17/00 (00-006)
8000	<u>Environmental Protection</u>
80210	Environmental Protection - Initial and Periodic Inspections 06/22/05 (05-016)
80721	Radiological Environmental Monitoring 09/17/01(01-017)
8100	<u>Physical Security</u>
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)
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)



**PART**

**PROCEDURE**

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)
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

**PART**

**PROCEDURE**

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)  
82201 Emergency Detection and Classification 03/23/05 (05-008)  
82202 Protective Action Decision Making 03/23/05 (05-008)  
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)  
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)

**PART**

**PROCEDURE**

- 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)
- 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)

**PART**

**PROCEDURE**

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 08/22/05 (05-023)  
87122 Irradiator Programs 12/31/02 (02-047)  
87123 Well Logging Programs 11/25/03 (03-037)  
87124 Fixed and Portable Gauge Programs 11/25/03 (03-037)  
87125 Materials Processor/Manufacturer Programs 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)  
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)

**PART**

**PROCEDURE**

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)
88107	Quality Assurance: Design and Documentation Control (Pre-licensing and Construction) 05/18/05 (05-013)
88110	Quality Assurance: Problem Identification, Resolution and Corrective Action 05/18/05 (05-013)
88130	Resident Inspection Program for On-Site Construction Activities at the Mixed Oxide Fuel Fabrication Facility 05/18/05 (05-013)
88134	Quality Assurance: Piping Relied on for Safety) 05/18/05 (05-013)
8900 <u>Fuel Facility and Materials Special Program</u>	
89001	In-Situ Leach (ISL) Facilities 09/02/97 (97-013)
9000 <u>Reportable Matters and Report Reviews</u>	
90501B	Reportable Matters - Startup Test Program 04/30/75 (75-16)
90700	Feedback of Operational Experience Information at Operating Power Reactors 03/23/05 (05-008)
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 <u>Title 10 Requirements</u>	



## PART

### PROCEDURE

#### 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 03/30/05 (05-009)
- 92709 Licensee Strike Contingency Plans 03/30/05 (05-009)
- 92711 Continued Implementation of Strike Plans During an Extended Strike 03/30/05 (05-009)
- 92712 Resumption of Normal Operations After a Strike 08/21/92 (92-010)
- 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 02/11/04 (04-006)
- 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



## **PART**

### **TECHNICAL GUIDANCE**

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	<u>Reserved</u>
9700	<u>Reserved</u>
9800	<u>Reserved</u>
9900	<u>Guidance</u> <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

---

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

**PART**

**TECHNICAL GUIDANCE**

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)

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)

## **PART**

### **TECHNICAL GUIDANCE**

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)
STS Sec 4.8.1.1.2	Surveillance Testing of Diesel Generator Lockout Feature 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 09/09/03 (03-033)  
[TG\_Mech SGTUBELKG.wpd]

Ice Condenser System Inspections 06/06/05 (05-015)

#### **Operations**

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

Notice of Enforcement Discretion 02/07/05 (05-005)  
[NOED.TG]

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**

	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)
10CFR71 and 49CFR171-178	Transportation of Radioactive Material 12/01/04 (04-027)
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**

**10 CFR GUIDANCE**

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