

NRC INSPECTION MANUAL

DIRS

TABLE OF CONTENTS

Table of Contents Current through Change Notice 07-028 Issued 09/11/07

PART

CHAPTER

0000 NRC Inspection Manual¹

0030 Policy and Guidance for Development of NRC Inspection
Manual Programs 04/30/97 (97-005)

0040 Preparing, Revising, and Issuing Documents for the NRC
Inspection Manual 06/20/07 (07-020)

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 04/04/07 (07-012)

0306 Information Technology Support for the Reactor Oversight
Process 04/04/07 (07-012)

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

0307	Reactor Oversight Process Self-Assessment Program 11/28/06 (06-034)
0307 App B	ROP Realignment Process 01/25/07 (07-003)
0308	Reactor Oversight Process (ROP) Basis Document 10/16/06 (06-027)
0308, Att 1	Technical Basis for Performance Indicators 10/06/04 (04-025)
0308, Att 2	Technical Basis for Inspection Program 10/16/06 (06-027)
0308, Att 3	Technical Basis for Significance Determination Process 10/16/06 (06-027)
0308, Att 3, App A	Technical Basis for At Power Significance Determination 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 10/16/06 (06-027)
0309	Reactive Inspection Decision Basis for Reactors 04/04/07 (07-012)
0312	Technical Assistance for Radiation Safety Inspections at Nuclear Fuel Cycle Facilities and Materials Licensees' Sites 06/06/02 (02-023)
0313	Industry Trends Program 10/16/06 (06-027)
0320	Operating Reactor Security Oversight Process 04/04/07 (07-012)
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 12/15/06 (06-035)

PART
CHAPTER

0400 Enforcement Policy

0500 Tracking Systems

0600 Documentation of Program Findings

- 0608 Performance Indicator Program 02/27/07 (07-007)
- 0609 Significance Determination Process 11/22/05 (05-030)
- 0609.01 Significance and Enforcement Review Panel Process
11/02/06 (06-033)
- 0609.02 Process for Appealing NRC Characterization of Inspection
Findings (SDP Appeal Process) 11/22/05 (05-030)
- 0609.03 Senior Reactor Analyst Support Expectations 07/26/06 (06-018)
- 0609 App A Determining the Significance of Reactor Inspection Findings for At-
Power Situations 03/23/07 (07-011)
- 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
10/16/06 (06-027)
- 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 09/25/06 (06-025)
- 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)

PART
CHAPTER

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)
0609 App M	Significance Determination Process Using Qualitative Criteria 12/22/06 (06-036)
0610	Inspection Reports 05/18/04 (04-014)
0610/001	Guidance for Certain Fuel Cycle Inspection Reports to Pilot Use of NRC Form 591 12/06/05 (05-033)
0612	Power Reactor Inspection Reports 11/02/06 (06-033)
0612, Exh 1	Standard Reactor Inspection Report Outline 09/30/05 (05-028)
0612, Exh 2	Inspection Report Documentation Matrix 09/30/05 (05-028)
0612, Exh 3	Sample Reactor Inspection Report 09/30/05 (05-028)
0612, Exh 4	Sample Cover Letters 06/29/06 (06-016)
0612, App A	List of Acronyms Used in IMC 0612 09/30/05 (05-028)
0612, App B	Issue Screening 11/02/06 (06-033)
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" 06/22/06 (06-015)
0612, App E	Examples of Minor Issues 06/22/06 (06-015)
0612, App F	Examples of Cross-cutting Aspects 06/22/06 (06-015)
0613	Reserved for 10 CFR Part 52 Licensed Power Reactor Construction and Test Inspection Reports
0614	Reserved for Documenting Oversight Activities
0615	Research and Test Reactor Inspection Reports 06/23/04 (04-018)
0616	Reserved for Fuel Cycle Safety and Safeguards Inspection Reports
0620	Inspection Documents and Records 01/27/06 (06-002)
0630	Analysis of the Impact of Noncompliance with Physical Security Requirements 10/01/82 (82-09)

PART
CHAPTER

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 10/19/06 (06-028)

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 06/22/06 (06-014)

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)

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 10/31/06 (06-032)

PART
CHAPTER

1245 Att 1	General Overview of the Inspector Training and Qualification Program 10/31/06 (06-032)
1245 Att 2	Inspector Competencies 10/31/06 (06-032)
1245 Att 3	General Orientation Topics 10/31/06 (06-032)
1245 App A	Basic-level Training and Certification Journal 10/31/06 (06-032)
1245 App B	General Proficiency-Level Training and Qualification Journal 10/31/06 (06-032)
1245 App C1	Reactor Operations Inspector Technical Proficiency Training and Qualification Journal 10/31/06 (06-032)
1245 App C2	Reactor Engineering Inspector Technical Proficiency Training and Qualification Journal 10/31/06 (06-032)
1245 App C3	Health Physics Inspector Technical Proficiency Training and Qualification Journal 10/16/06 (06-027)
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 10/31/06 (06-032)
1245 App C6	Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 08/24/04 (04-022)
1245 C8	Vendor 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 10/31/06 (06-032)
1245 D1	Senior Reactor Analyst Training and Qualification Program 10/31/06 (06-032)
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 04/21/06 (04-009)
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 05/25/06 (06-013)
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)

PART
CHAPTER

Sec. XIII	Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002)
Sec. XIV	High-Level Waste Repository Inspector 05/09/06 (05-011)
Sec. XV	High-Level Waste Repository License Technical Reviewer 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 05/09/06 (05-011)
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)
1247	Reserved for Qualification Program for the Inspectors of Fuel Facilities in the Nuclear Material Safety and Safeguards Program Area
1252	Construction Inspector Training and Qualification Program 02/06/07 (07-005)
1252 App A	Construction Inspector Basic-Level Training and Certification Journal 02/06/07 (07-005)
1252 App B	Construction Inspector General Proficiency-Level Training and Qualification Journal 02/06/07 (07-005)
1252 App C	Construction Inspector Technical Proficiency-Level Training and Qualification Journal 02/06/07 (07-005)

PART
CHAPTER

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 11/02/06 (06-033)
1400	<u>Reserved</u>
1415	State Contracts for Environmental Monitoring 06/28/91 (91-009)
1500	<u>Reserved</u>
1600	<u>Emergency Preparedness</u>
1601	Communication Protocol for Assessing Offsite Emergency Preparedness Following a Natural Disaster 07/07/05 (05-018)
1700	<u>Reserved</u>
1800	<u>Reserved</u>
1900	<u>Reserved</u>
2000	<u>Reserved</u>
2100	<u>Reserved</u>
2200	<u>Nuclear Security and Incident Response</u>
2201	Security 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)

PART

CHAPTER

- 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)
- 2201/001 Inspection of Additional Security Measures for Radioactive Material Quantities of Concern 09/18/06 (06-024)
- 2201/001 App B Inspection Requirements and Guidance for Handling and Protection of Safeguards Information - Modified Handling 09/18/06 (06-024)
- 2201/001 App C Radioactive Material Quantities of Concern Security Inspection Record 09/18/06 (06-024)

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 Construction Inspection Program: Early Site Permit (ESP) 04/25/06 (06-010)
- 2502 Construction Inspection Program: Pre-Combined License (Pre-COL) Phase 06/22/05 (05-016)
- 2503 Construction Inspection Program: Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) 04/25/06 (06-010)
- 2504 Construction Inspection Program - Non-ITAAC Inspections 04/25/06 (06-010)
- 2505 Reserved
- 2507 Reserved for Construction Vendor Inspection Program
- 2508 Reserved for Design Certification
- 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 01/26/07 (07-004)
- 2515 App A Risk-Informed Baseline Inspection Program 01/26/07 (07-004)
- 2515 App B Supplemental Inspection Program 01/26/07 (07-004)

PART
CHAPTER

2515 App C	Special and Infrequently Performed Inspections 07/07/05 (05-018)
2515 App D	Plant Status 04/04/07 (07-012)
2515 App E	Inspection Program Modifications During a Pandemic 01/26/07 (07-004)
2515/147	Expanded Table-Top Drill Evaluation 08/14/02 (02-030) (Note this TI contains safeguards material)
2515/148 Rev. 2	Inspection of Nuclear Reactor Safeguards - Interim Compensatory Measures 03/19/03 (03-009)
2515/150 Rev. 3	Reactor Pressure Vessel Head and Vessel Head Penetration 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)
2515/154 Rev. 2	Material Control and Accounting at Nuclear Power Plants and Wet Storage Sites 01/12/07 (07-002) (Note: TI withheld from public disclosure since it contains official use only - security-related information).
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).
2515/157	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) Affecting Safety-Related Equipment 07/29/04 (04-021)
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)
2515/164	Inspection of Nuclear Reactor Safeguards Interim Compensatory Measures - Section B.5.b of the February 25, 2002, Order [Safeguards Information] 06/28/05 (05-017)
2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC Rev. 1 Generic Letter 2004-02] 05/16/07 (07-016)
2515/168	Closeout Inspection of Nuclear Reactor Safeguards Interim Compensatory Measures - Section B.5.b of the February 25, 2002, Orders. [Safeguards Information] 05/19/06 (06-012)
2516	Policy and Guidance for the License Renewal Inspection Programs 02/18/05 (05-006)
2517	Reserved for Reactivation of the Construction Inspection Program for Watts Bar Unit 2
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)

PART
CHAPTER

2561/004 Safeguards and Emergency Preparedness Inspection of Interim
Compensatory Measures at Decommissioning Power Reactors
04/22/03 (03-011)

2600 Fuel Cycle Facility Inspection Program

2600 Fuel Cycle Facility Operational Safety and Safeguards Inspection
Program 08/15/07 (07-025)

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

2600, App B NRC Core Inspection Requirements...Tables 1 and 2 08/15/07 (07-
025)

2600, App C Fuel Cycle Resident Inspection Program 08/15/07 (07-025)

2600, App D Fuel Cycle Facility Inspection Planning 08/15/07 (07-025)

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)

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)

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
Nuclear Fuel Facilities Possessing Strategic Special Nuclear
Material (SNMM) 08/08/03 (03-029)

2681/008 Inspection of Safeguards Compensated Measures for Category III
Fuel Cycle Facilities 09/18/06 (06-023)

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 and for
10 CFR Part 71 Transportation Packagings 05/03/07 (07-015)

PART
CHAPTER

2694	USEC Inc. Gas Centrifuge Facility Construction and Pre-operational Readiness Review Inspection Programs 05/16/07 (07-016)
2696	Louisiana Energy Services Gas Centrifuge Facility Construction and Pre-Operational Readiness Review Inspection Programs 10/19/06 (06-028)
2700	<u>Licensee Contractor and Vendor Inspection Program</u>
2700	Vendor Inspection Program (VIP) 10/29/90 (90-013)
2800	<u>Materials Inspection Program</u>
2800	Materials Inspection Program 09/28/05 (05-027)
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	
2800/038	Inspection of the Implementation of Increased Controls for Licensees Authorized to Possess Risk Significant Radioactive Material 03/30/06 (06-008)
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

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

3100 Reserved

3200 Reserved

3300 Reserved

3400 Reserved

3500 Quality Assurance

35002 Early Site Permit Pre-Docketing Quality Assurance Controls
Meeting 05/29/03 (03-018)

35004 Pre-Docketing Early Site Permit Quality Assurance Controls
Inspection 05/29/03 (03-018)

35005 Pre-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)

35023 Reserved for Design Reliability Assurance Program

35029 Pre-Combined License (COL) Quality Assurance (QA) Inspection
of Site Limited Work Authorization (LWA) 1 & 2 Activities
06/22/05 (05-016)

35031 Reserved for Design Certification Pre-Meeting

35032 Reserved for Pre-Docketing Design Certification Quality Assurance
Controls Inspection

35033 Reserved for Post-Docketing Design Certification Quality
Assurance Controls Inspection

PART
PROCEDURE

- 35034 Reserved for Design Qualification Testing Inspection
- 35100 Review of the QA Manual 06/22/05 (05-016)
- 35101 Reserved for Implementation of Quality Assurance Program Described in Final Safety Analysis Report
- 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)
- 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)
- 37803 Reserved

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)
- 40504 Reserved for Identification and Resolution of Construction Problems (Program Review)

PART
PROCEDURE

- 40505 Reserved for Effectiveness of Process to Identify, Resolve, and Prevent Construction Problems
- 40600 Reserved for Licensee Program for ITAAC Closure
- 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)
- 43002 Reserved for Routine Inspections of Nuclear Vendors
- 43003 Reserved for Reactive Inspections of Nuclear Vendors
- 43004 Reserved for Inspection of Commercial-Grade Dedication Programs
- 43005 Reserved for NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements

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

4900 Piping

PART
PROCEDURE

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

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)
50054 Reserved for Reactor Vessel Material Surveillance Program
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)
51080 Reserved for Equipment Qualification

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

PART
PROCEDURE

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 09/05/06 (06-022)
60855 Operation of an ISFSI 03/28/02 (02-012)
60855.1 Operation of an Independent Spent Fuel Storage Installation at
Operating Plants 09/05/06 (06-022)
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)
60858 Away-From-Reactor ISFSI Inspection Guidance 05/03/07 (07-015)

6100 Surveillance

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

PART
PROCEDURE

- 61707 Determination of Reactor Shutdown Margin 10/11/85 (85-31)
- 61708 Isothermal and Moderator Temperature Coefficient Determinations 10/11/85 (85-31)
- 61709 Total Power Coefficient of Reactivity at Pressurized Water Reactors 07/14/86 (86-36)
- 61710 Control Rod Worth Measurements (PWR) 10/11/85 (85-31)
- 61715 Verification of Containment Integrity 12/23/86 (86-60)
- 61720 Containment Local Leak Rate Testing 10/03/85 (85-30)
- 61726 Surveillance Observations 06/24/98 (98-010)
- 61728 Independent Measurement of RCS Leak Rates for a PWR 01/01/84 (84-02)

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)
- 62711 Reserved for Operational Reliability Assurance Process"
- 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 10 CFR Part 52 ITAAC Inspections

- 65001 Reserved

6600 Reserved

6700 Reserved

PART
PROCEDURE

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 02/03/047 (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)
- 70701 Reserved
- 70702 Reserved

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

PART
PROCEDURE

	02/18/05 (05-006)
71004	Power Uprate 05/09/06 (05-011)
71005	Inspector Review of Licensing-Related Information 08/05/03 (03-027)
71007	Reactor Vessel Head Replacement Inspection 06/04/07 (07-018)
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 03/23/07 (07-011)
71111.02	Evaluation of changes, Tests, or Experiments 05/09/06 (05-011)
71111.04	Equipment Alignment 02/27/07 (07-007)
71111.05AQ	Fire Protection (Annual / Quarterly) 09/05/06 (06-022)
71111.05T	Fire Protection (Triennial) 04/21/06 (06-009)
71111.05TTP	Fire Protection-NFPA 805 Transition Period [Triennial] 05/09/06 (05-011)
71111.06	Flood Protection Measures 01/25/07 (07-003)
71111.07	Heat Sink Performance 05/25/06 (06-013)
71111.08	Inservice Inspection Activities 05/11/04 (04-013)
71111.11	Licensed Operator Requalification Program 1/05/06 (06-001)
71111.12	Maintenance Effectiveness 03/13/06 (06-006)
71111.13	Maintenance Risk Assessments and Emergent Work Evaluation 03/23/07 (07-011)
71111.15	Operability Evaluations 07/26/06 (06-018)
71111.17	Permanent Plant modifications 07/07/05 (05-018)
71111.19	Post Maintenance Testing 01/17/02 (02-001)
71111.20	Refueling and Other Outage Activities 09/02/05 (05-024)
71111.21	Component Design Bases Inspection 06/22/06 (06-014)
71111.22	Surveillance Testing 02/27/07 (07-007)
71111.23	Temporary Plant Modifications 1/05/06 (06-001)
71114	Reactor Safety-Emergency Preparedness 06/29/06 (06-016)
71114.01	Exercise Evaluation 06/29/06 (06-016)
71114.02	Alert and Notification System Testing 06/29/06 (06-016)
71114.03	Emergency Response Organization Augmentation Testing 08/24/07 (07-026)
71114.04	Emergency Action Level and Emergency Plan Changes 10/25/06 (06-029)
71114.05	Correction of emergency Preparedness Weaknesses and Deficiencies 10/25/06 (06-029)
71114.06	Drill Evaluation 10/25/06 (06-029)
71114.07	Force-On-Force (FOF) Exercise Evaluation 10/25/06 (06-029)
71121	Occupational Radiation Safety 03/06/02 (02-008)
71121.01	Access Control to Radiologically Significant Areas 03/06/02 (02-008)
71121.02	ALARA Planning and Controls 03/06/08 (02-008)

PART
PROCEDURE

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 05/25/06 (06-013)
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 12/30/05 (05-035)
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 01/04/07 (07-001)
71151	Performance Indicator Verification 06/28/07 (07-021)
71152	Identification and Resolution of Problems 06/22/06 (06-015)
71153	Followup of Events and Notices of Enforcement Discretion 07/26/06 (06-018)
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)
72303	Startup Testing for ABWR: Test Procedure Review, Test Witnessing, and Test Results Evaluation 09/05/06 (06-021)
72304	Startup Testing for AP 1000: Test Procedure Review, Test Witnessing, and Test Results Evaluation 09/05/06 (06-021)
72400B	Overall Startup Test Program 07/01/80 (80-16)
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)

PART
PROCEDURE

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)
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 PI01/14/86 (86-03)
73052	Inservice Inspection - Review of Procedures 01/14/86 (86-03)
73753	Inservice Inspection 06/24/98 (98-010)

PART
PROCEDURE

- 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

7900 Water Chemistry

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

8000 Environmental Protection

- 80210 Environmental Protection - Initial and Periodic Inspections
06/22/05 (05-016)
- 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 Physical Security Plan and Implementing Procedures 05/24/07 (07-17)
- 81020 Management Effectiveness - Security Program 06/13/07 (07-019)
- 81022 Security Organization 06/13/07 (07-019)
- 81034 Security Program Audit 09/10/07 (07-027)
- 81038 Records and Reports 09/10/07 (07-027)
- 81042 Testing and Maintenance 04/12/07 (07-013)
- 81046 Locks, Keys, and Combinations 09/10/07 (07-027)
- 81052 Physical Barriers - Protected Areas 09/10/07 (07-027)
- 81054 Physical Barriers - Vital Areas, Material Access Areas, and
Controlled Access Areas 09/10/07 (07-027)
- 81058 Security System Power Supply 09/10/07 (07-027)
- 81062 Lighting 09/10/07 (07-027)

PART
PROCEDURE

81064	Compensatory Measures 09/10/07 (07-027)
81066	Assessment Aids 09/10/07 (07-027)
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 09/10/07 (07-027)
81088	Communications 09/10/07 (07-027)
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 09/10/07 (07-027)
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)

PART
PROCEDURE

81911	Assessment 02/19/91 (91-003)
81912	Badge Control 02/19/91 (91-003)
81913	Communications 02/19/91 (91-003)
81914	Duress Alarms 02/19/91 (91-003)
81915	EECP Machine Performance - Explosive Detectors 02/19/91 (91-003)
81916	EECP Machine Performance - Metal Detectors 02/19/91 (91-003)
81917	EECP Machine Performance - X-ray 02/19/91 (91-003)
81918	Emergency Power Supply 02/19/91 (91-003)
81919	Interior Alarms 02/19/91 (91-003)
81920	Intrusion Detection System 02/19/91 (91-003)
81921	Isolation Zone 02/19/91 (91-003)
81922	Keys, Locks, and Combinations 02/19/91 (91-003)
81923	Lighting 02/19/91 (91-003)
81924	MAA Barriers 02/19/91 (91-003)
81925	Personnel Searches 02/19/91 (91-003)
81926	Preventative Maintenance 02/19/91 (91-003)
81927	Protected Area Barriers 02/19/91 (91-003)
81928	Protected Area Housekeeping 02/19/91 (91-003)
81929	Strategic Special Nuclear Material Exit Searches 02/19/91 (91-003)
81930	Tactical Response Team Exercises 02/19/91 (91-003)
81931	Vehicle Barriers 02/19/91 (91-003)
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

PART
PROCEDURE

	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)
83746	Reserved for Offsite Dose Calculation Manual
83750	Occupational Radiation Exposure 06/06/02 (02-023)
83801	Inspection of Remedial and Final Surveys at Permanently Shutdown Reactors 09/05/06 (06-020)
83822	Radiation Protection 09/07/00 (00-016)
83890	Closeout Inspection and Survey 05/01/03 (03-013)

8400 Radioactive Waste Management

84100	Special Nuclear Material Inspections At Near Surface Low-Level Waste Disposal Facilities In Agreement States 11/27/01 (01-028)
84101	Radioactive Waste Management 12/30/91 (91-022)
84521	Radwaste - Startup 01/01/84 (84-01)
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)

PART
PROCEDURE

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)
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

PART
PROCEDURE

87102	Maintaining Effluents from Materials Facilities As Low As Is Reasonably Achievable (ALRA) 04/04/00 (00-005)
87103	Inspection of Material Licensees Involved in an Incident or Bankruptcy Filing 11/03/00 (00-023)
87104	Decommissioning Inspection Procedure for Materials Licensees 07/29/02 (02-029)
87121	Industrial Radiography Programs 08/22/05 (05-023)
87122	Irradiator Programs 12/31/02 (02-047)
87123	Well Logging Programs 11/25/03 (03-037)
87124	Fixed and Portable Gauge Programs 11/25/03 (03-037)
87125	Materials Processor/Manufacturer Programs 09/28/05 (05-027)
87126	Industrial/Academic/Research Programs 09/28/05 (05-027)
87127	Radiopharmacy Programs 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 12/06/05 (05-033)
87133	Medical Gamma Sterotactic Radiosurgery and Teletherapy Programs 10/24/02 (02-041)
87134	Medical Broad-Scope Programs 09/28/05 (05-027)
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 09/05/06 (06-020)
88010	Operator Training/Retraining 09/05/06 (06-020)
88015	Nuclear Criticality Safety Program 09/05/06 (06-020)
88016	Nuclear Criticality Safety Evaluations and Analyses 07/28/06 (06-019)
88017	Criticality Alarm Systems 07/28/06 (06-019)
88020	Operational Safety 09/05/06 (06-020)
88025	Maintenance and Surveillance Testing 09/25/06 (06-025)
88030	Radiation Protection 07/28/06 (06-019)
88035	Radioactive Waste Management 09/25/06 (06-025)
88045	Effluent Control and Environmental Protection 09/05/06 (06-020)
88050	Emergency Preparedness 09/05/06 (06-020)
88051	Evaluation of Exercises and Drills 07/28/06 (06-019)
88055	Fire Protection 09/05/06 (06-020)
88056	Process Safety Information 01/16/96 (96-001)

PART
PROCEDURE

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)
88070	Permanent Plant modification 09/05/06 (06-020)
88071	Configuration Management Programmatic Review 07/28/06 (06-019)
88075	Event Followup 07/28/06 (06-019)
88100	Plant Operations 12/30/96 (96-026)
88101	Configuration Control 12/30/96 (96-026)
88102	Surveillance Observations 12/30/96 (96-026)
88103	Maintenance Observations 12/30/96 (96-026)
88104	Decommissioning Inspection Procedure for Fuel Cycle Facilities 07/03/02 (02-026)
88105	Management Organization and Controls 12/30/96 (96-026)
88106	Quality Assurance: Program Development and Implementation (Pre-licensing and Construction) 02/07/07 (07-006)
88107	Quality Assurance: Design and Documentation Control (Pre- licensing and Construction) 05/18/05 (05-013)
88108	Quality Assurance: Control of Materials, Equipment, and Services (Pre-licensing and Construction) 02/07/07 (07-006)
88109	Quality Assurance: Inspection, Test Control, and Control of Measuring and Test Equipment (Pre-licensing and Construction) 06/20/07 (07-020)
88110	Quality Assurance: Problem Identification, Resolution and Corrective Action 05/18/05 (05-013)
88111	10 CFR, Part 21, Inspection-Facility Construction 02/07/07 (07-006)
88112	Reserved for Software Validation
88113	Control of the Electronic Management of Data 02/07/07 (07-006)
88114	Quality Affecting Item Procurement (10 CFR Part 21) and Commercial Grade Item Dedication Process [Reactive] 10/25/06 (06-030)
88115	Supplier/Vendor Inspection (Construction Phase) 10/25/06 (06-030)
88116	Inspection of Safety Function Interfaces for the Mixed Oxide Fuel Fabrication Facility (Pre-licensing and Construction) 02/07/07 (07- 006)
88130	Resident Inspection Program for On-Site Construction Activities at the Mixed Oxide Fuel Fabrication Facility 10/25/06 (06-030)
88131	Geotechnical/Foundation Activities 10/25/06 (06-030)
88132	Structural Concrete Activities 10/25/06 (06-030)
88133	Structural Steel and Supports Activities 7/25/07 (07-023)

PART
PROCEDURE

- 88134 Quality Assurance: Piping Relied on for Safety) 05/18/05 (05-013)
- 88135 Resident Inspection Program for Category I Fuel Cycle Facilities 0925/06 (06-025)
- 88136 Mechanical Components 7/25/07 (07-023)
- 88137 Reserved for Electric Cable
- 88138 Electrical Components and Systems 08/08/07 (07-024)
- 88139 Ventilation and Confinement Systems 08/08/07 (07-024)
- 88140 Reserved for Instrumentation and Controls Systems
- 88141 Fire Prevention and Protection 08/08/07 (07-024)
- 88142 Underground Fire Water Loop and Equipment Installation 08/08/07 (07-024)
- 88143 Pipe Supports and Restraints 7/25/07 (07-023)
- 88150 Reserved for Training and Qualification of Plant Personnel
- 88151 Reserved for Facility Changes and Change Process (10 CFR70.72)
- 88152 Reserved for Physical Protection Equipment and Barriers
- 88153 Reserved for Material Control and Accounting
- 88154 Reserved for Fire Safety and Protection Systems
- 88155 Reserved for Functional Verifications of IROFS
- 88156 Reserved for Integrated Safety Analysis Implementation
- 88157 Reserved for Waste Management Equipment and Systems
- 88158 Reserved for Environmental Protection - Initial and Periodic Inspections
- 88159 Reserved for Process Enclosures and Vessels
- 88160 Reserved for Utilities and Bulk Chemicals

8900 Fuel Facility and Materials Special Program

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

9000 Reportable Matters and Report Reviews

- 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 Title 10 Requirements

9200 Planned Non-Routine Activities

- 92050 Review of Quality Assurance for Extended Construction

PART
PROCEDURE

	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 03/13/07 (07-010)
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	OHSA 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 07/18/07 (07-022)
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 07/18/07 (07-022)

9400 Technical Activities of an Administrative Nature

9500 Strategic Determination Actions

PART
PROCEDURE

- 95001 Inspection for One or Two White Inputs in a Strategic Performance Area 10/16/06 (06-027)
- 95002 Inspection for One Degraded Cornerstone or Any three White Inputs in a Strategic Performance Area 10/16/06 (06-027)
- 95003 Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or One Red Input 10/26/06 (06-031)

9600 Materials Safety and Security

- 96001 Contingency Response – Annual Force-On-Force Testing Category 1 Fuel Cycle Facilities 02/14/06 (06-003)

9700 Reserved

9800 Reserved

PART
TECHNICAL GUIDANCE

9900 Guidance²

- 99000 Technical Guidance 05/12/86 (86-26)

Technical Guidance

- ASME Section III American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III 06/16/89 (89-011)
- ASME Section III American Society of Mechanical Engineers ASME Boiler and & XI Pressure Vessel Code, Section III & XI 11/12/96 (96-022)
- ASME Section XI American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section XI 12/08/86 (86-54)
- ASME Section XI American Society of Mechanical Engineers ASME, Section XI 05/12/86 (86-26)
- Oper Det Process Operability Determinations & Functionality Assessments For Resolution of Degraded or Nonconforming Conditions Adverse to Quality or Safety 09/26/05 (05-026)

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

PART
TECHNICAL GUIDANCE

STS Sec 1.0	Operability 05/12/86 (86-26)
STS Sec 1.0	Definitions 12/08/86 (86-54)
STS Sec 3.0	Acceptable Measurement Tolerances for Technical Specification Limits 10/01/78 (78-35)
STS Sec 3/4.6.4	Containment and Drywell Isolation Valves 06/09/88 (88-06)
STS Sec 3.7.5	Ultimate Heat Sink 11/25/88 (88-17)
STS Sec 3/4.8.1	TDI Diesel Generator Air Roll Tests 06/09/88 (88-06)
STS Sec 4.2.8.X.X	Surveillance Requirements - 125-Volt Battery Bank 10/01/79 (79-22)
STS Sec 4.5.1	Standard Technical Specifications (BWR) 05/12/86 (86-26)
STS Sec 4.8.1.1.2	Surveillance Testing of Diesel Generator Lockout Feature 05/12/86 (86-26)
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)

PART
TECHNICAL GUIDANCE

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

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]

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

PART
10 CFR GUIDANCE

10 Title 10 of the Code of Federal Regulations 12/08/86 (86-54)

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

50.55(e) Construction Deficiency Reporting 01/31/89 (89-002)

50.55a Codes and Standards 02/22/73 (73-9)

50.59 10 CFR 50.59, Changes, Tests, and Experiments
03/13/01 (01-008) [50_59.CFR]

Part 50, App A Definition of Leak-Before-Break Analysis 09/26/96 (96-020)

Part 50 Appendix J, Containment Integrated Leak Rate Testing
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

PART
10 CFR GUIDANCE

END