NRC INSPECTION MANUAL

TABLE OF CONTENTS

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

- PART
 - <u>CHAPTER</u>
- 0000 NRC Inspection Manual¹

0030	Policy and Guidance for Development of NRC Inspection Manual Programs 04/30/97 (97-005)
0040	Preparing, Revising, and Issuing Documents for the NRC Inspection Manual 02/02/04 (04-003)

0100 Program Responsibilities

0102	Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities 08/22/05 (05-023) Monitoring Activities for the DOE West Valley Demonstration Project 03/04/02 (02-006)
	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) Coordination of NRC Visits to Commercial Reactor Sites
0301	Coordination of NRC Visits to Commercial Reactor Sites
0303	08/24/01 (01-016) 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	
	07/28/05 (05-022)
0308, Att 3,	App A Technical Basis for At Power Significance Determination

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.

<u>PART</u>

CHAPTER

	Process 07/27/04 (04-020)
0308, Att 3, A	App B Technical Basis for Emergency Preparedness Significance Determination Process 07/28/05 (05-022)
0308, Att 3, A	App C Technical Basis for Occupational Radiation Safety
0308, Att 3, A	Significance Determination Process 07/28/05 (05-022) App D Technical Basis for Public Radiation Safety
0308, Att 3, A	Significance Determination Process 07/27/04 (04-020) 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, A	App G Technical Basis for Shutdown Operations Significance Determination Process 02/28/05 (05-007)
0308, Att 3, A	App H Technical Basis for Containment Integrity Significance Determination Process 05/06/04 (04-010)
0308, Att 3, A	App I Technical Basis for Operator Requalification Human Performance Significance Determination Process
	07/28/05 (05-022)
0308, Att 3, A	App J Technical Basis for Steam Generator Tube Integrity Findings Significance Determination Process 05/06/04 (04-010)
0308, Att 3, A	App K Technical Basis for Maintenance Risk Assessment and Risk Management SDP 05/19/05 (05-014)
0308, Att 4	Technical Basis for Assessment
0308, Att 5	
0309	07/28/05 (05-022) Reactive Inspection Decision Basis For Reactors
0000	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 Enforcement Policy
- 0500 Tracking Systems

0600 Documentation of Program Findings

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

TABLE OF CONTENTS

	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 F	Part I Baseline Physical Protection Significance Determination Process 07/21/05 (05-020)
0609 App E F	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 0612	Inspection Reports 05/18/04 (04-014) Power Reactor Inspection Reports 01/14/04 (04-001)
0612, Exh 1 0612, Exh 2	Standard Reactor Inspection Report Outline 06/20/03 (03-021) Inspection Report Documentation Matrix 06/20/03 (03-021)
0612, Exh 3	Sample Reactor Inspection Report 06/20/03 (03-021) Sample Cover Letters 06/20/03 (03-021)

<u>PART</u>

CHAPTER

	0612, App B	List of Acronyms Used in IMC 0612 06/20/03 (03-021) Issue Screening 05/19/05 (05-014) Documentation Guidance For Supplemental Inspections
	0612, App D	06/20/03 (03-021) Guidance for Documenting Inspection Procedure 71152, "Identification and Resolution of Problems" 06/20/03 (03-021)
	0612, App E 0615	Examples of Minor Issues 05/19/05 (05-014) Research and Test Reactor Inspection Reports
	0620	06/23/04 (04-018) Inspection Documents and Records 07/08/96 (96-015)
	0630	Analysis of the Impact of Noncompliance with Physical Security Requirements 10/01/82 (82-09)
0700	<u>Communicati</u>	ons With Licensees
	0730	Generic Communications Regarding Materials and Fuel Cycle Issues 10/22/02 (02-040)
0800	Feedback - II	mproving 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)

1220, App II	Procedures Letter to be Sent to Licensees With Procedures and
0220. App I 1230	Information for Filing NRC Form 241 05/01/03 (03-013) III Inspection of Agreement State Licensees 05/01/03 (03-013) Quality Assurance Program for Radiological Confirmatory
1232	Measurements 10/01/83 (83-12) Collection, Preparation, and Shipment of Independent Measurement Samples 11/18/86 (86-52)
1240 1245	Unescorted Access At Power Reactors 12/01/04 (04-027) Qualification Program For the Office of Nuclear Reactor
1245 Att 1	Regulation Programs 06/29/04 (04-019) 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 1245 App B	
1245 App B	06/29/04 (04-019)
1245 App C	1 Reactor Operations Inspector Technical Proficiency Training and
1245 App C	Qualification Journal 08/24/04 (04-022) 2 Reactor Engineering Inspection Technical Proficiency Training
	and Qualification Journal 08/24/04 (04-022)
1245 App C	3 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 C	
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 C	10 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
Sec. VI	Control and Accounting 01/05/01 (01-002) 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)

	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 Sec. XIII	Uranium Recovery Inspector 01/05/01 (01-002) Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002)
	Sec. XIV Sec. XV	High-Level Waste Repository Inspector 04/14/03 (03-012) 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 Qualificatior		NRC Inspector, License Reviewer and Project Manager/Technical Reviewer Training and Qualification Journal 01/05/01 (01-002)
	Sec. I Sec. II Sec. III	Materials License Reviewer 01/05/01 (01-002) Materials Health Physics Inspector 01/05/01 (01-002) Fuel Cycle Safety Inspector 01/05/01 (01-002)
	Sec. IV	Fuel Cýcle Safeguards Inspector - Physical Sécurity 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 Sec. VIII	Fuel cycle License Reviewer 01/05/01 (01-002) Waste Management Inspector and License Reviewer 01/05/01 (01-002)
	Sec. IX Sec. X	Decommissioning Inspector 01/05/01 (01-002) Decommissioning Project Manager/Technical Reviewer 04/14/03 (03-012)
	Sec. XI	Materials Exempt Distribution License Reviewer 01/05/01 (01-002)
	Sec. XII Sec. XIII	Uranium Recovery Inspector 01/05/01 (01-002) Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002)
	Sec. XIV Sec. XV	High-Level Waste Repository Inspector 04/14/03 (03-012) 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
	1302	Material 10/20/00 (00-022) 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)

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
 - Yucca Mountain Pre-Operation Inspection Program 2300 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	Inspec	ction F	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-
0500	COL) Phase 06/22/05 (05-016)
2509	Browns Ferry Unit 1 Restart Project Inspection Program
2514	09/08/03 (03-032) Light Water Reagter Inspection Program Stortup
2514	Light Water Reactor Inspection Program - Startup Testing Phase 08/21/89 (89-013)
2514 Ann A	Startup Test Program Inspection Procedures 04/15/94 (94-018)
2515	Light Water Inspection Program - Operations Phase
2010	07/28/05 (05-022)
2515 App A	Risk-Informed Baseline Inspection Program 01/17/02 (02-001)
	Supplemental Inspection Program 03/23/05 (05-008)
	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
0545/440	08/06/03 (03-028) Draindaura During Shutdaura and Common Mada Failura
2515/142	Draindown During Shutdown and Common-Mode Failure
2515/147	(NRC Generic Letter 98-02)) 06/18/99 (99-009) Expanded Table-Top Drill Evaluation 08/14/02 (02-030)
2010/14/	(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
2515/152	02/06/03 (03-002) 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
0545450	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
2010/100	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)

	2515/161	Transportation of Reactor Control Rod Drives in Type A Packages 03/30/05 (05-009)
	2515/162 2515/163 2515/164	SAFEGUARDS INFORMATION 04/13/05 (05-010) Operational Readiness of Offsite Power 05/02/05 (05-011) Inspection of Nuclear Reactor Safeguards Interim Compensatory Measures - Section B.5.b of the February 25, 2002,Order
	2516	[SAFEGUARDS INFORMATION] 06/28/05 (05-017) Policy and Guidance For The License Renewal Inspection Programs 02/18/05 (05-006)
	2530 2535 2545 2561	Integrated Design Inspection Program 04/24/85 (85-17) Design Verification Programs 03/24/89 (89-007) Research and Test Reactor Inspection Program 06/23/04 (04-018) Decommissioning Power Reactor Inspection Program 04/14/03 (03-012)
	2561/003	Re-Examination of Year 2000 (Y2K) Program Activities
	2561/004	at Selected Decommissioning Reactors 11/30/99 (99-019) Safeguards and Emergency Preparedness Inspection of Interim Compensatory Measures at Decommissioning Power Reactors 04/22/03 (03-011)
2600	Fuel Cycle F	acility Inspection Program
	2600	Fuel Cycle Facility Operational Safety and Safeguards Inspection Program 04/14/03 (03-012)
	2600/003 2600/006	Operational Safety Review 07/29/04 (04-021) 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 2605	Licensee Performance Review 06/28/02 (02-024) 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 2681	In-Situ Leach Facilities Inspection Program 08/25/00 (00-014) 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

	2682 2683 2690 2690 App A 2690 App B	Nuclear Fuel Facilities Possessing Strategic Special Nuclear Material (SNMM) 08/08/03 (03-029) Technical Assistance for Safeguards MC&A Inspections at Fuel Facilities 06/18/84 (84-18) MC&A Safeguards Inspection of Fuel Facilities 07/22/99 (99-011) Inspection Program For Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations 07/14/05 (05-019) Inspection Program for an ISFSI Located at a Reactor Site 12/03/01 (01-029) Inspection Program for an ISFSI Located Away From Any Reactor Site 12/03/01 (01-029)
2700	Licensee Co	ntractor and Vendor Inspection Program
	2700	Vendor Inspection Program (VIP) 10/29/90 (90-013)
2800	Materials Ins	pection Program
	2800 2800/030	Materials Inspection Program 11/25/03 (03-037) Verification of the Status of Devices Authorized For Use Under a General License 05/30/00 (00-011)
	2800/032 2800/034	Followup - Materials Safeguard Advisory 10/31/01 (01-023) 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 Rev. 1	Safety Procedures For Panoramic Irradiators 07/14/05 (05-019)
	2801	Uranium Mill 11e.(2) Byproduct Material Disposal Site and Facility Inspection Program 08/25/00 (00-014)
	2810	Master Materials License Inspection Program 09/15/03 (03-034)
	2815	Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators 03/27/01 (01-010)
	2882	Transfer of NRC License Files to Agreement State(s) 12/03/01 (01-029)
2900	Performance	Appraisal Program
	2900 2901 2920	Performance Appraisal Program DI 04/04/85 (85-14) Team Inspections 08/24/01 (01-016) Construction Appraisal Team Inspection Program 03/29/85 (85-11)
3000	<u>Managemen</u> 30800B	<u>t Meetings</u> Initial Management Meeting - Materials Licensees 10/01/76 (76-26)

TABLE OF CONTENTS

- 3100 Reserved
- 3200 <u>Reserved</u>
- 3300 <u>Reserved</u>
- 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 35301 35501 35701	Review of the QA Manual 06/22/05 (05-016) Preoperational Testing - Quality Assurance 08/06/03 (03-028) QA for the Startup Test Program 01/20/84 (84-04) 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)

	PROCEDUR	RE
	37550	Engineering 11/15/99 (99-018)
	37551 37700	Onsite Engineering 06/24/98 (98-010) Design Changes, and Modifications 09/17/01 (01-017
	37801	Safety Reviews, Design Changes, and Modifications at
	37802	Permanently Shutdown Reactors 08/11/97 (97-012) First-of-a-Kind Engineering Inspections 06/22/05 (05-016)
3800	Procuremen	<u>t</u>
	38703	Commercial Grade Dedication 04/08/96 (96-007)
	00100	
3900	Records	
	39701	Records Program 09/17/01 (01-017)
4000	Review and	Audit
4000		
	40001 40002	Resolution of Employee Concerns 06/03/97 (97-006) Inspections to Review Allegations 06/28/02 (02-024)
	40500	Effectiveness of Licensee Process to Identify, Resolve, and
	40801	Prevent Problems 05/03/99 (99-008) Self-Assessment, Auditing, and Corrective Action at
		Permanently Shutdown Reactors 08/11/97 (97-012)
4100	<u>Training</u>	
	41500	Training and Qualification Effectiveness 06/13/95 (95-007)
4200	Procedures	
7200		
	42001 42700	Emergency Operating Procedures 06/28/91 (91-009) Plant Procedures 11/15/95 (95-015)
	12100	
4300	Vendor Procedures	
	43001	Reactive Inspection of Nuclear Vendors 10/11/94 (94-018)
4400	Reserved	
4500	Geotechnica	al/Foundation
	45051	Geotechnical/Foundation Activities Procedure Review
		05/29/03 (03-018)
1600	Structural C	operato
4600	Structural Co	

TABLE OF CONTENTS

- 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 <u>Cleanliness</u>
- 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
 - 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 60710	Preparation for Refueling 07/27/95 (95-009) 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 <u>Surveillance</u>

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)

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 Ratés 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 <u>Reserved</u>
- 6600 <u>Reserved</u>
- 6700 Reserved
- 6800 Reserved

6900 Non-Power Reactor Inspection

Class II Research and Test Reactors 02/03/04 (04-004)
Class III Research and Test Reactors 02/03/04 (04-004)
Class I Research and Test Reactor Operator Licenses,
Requalification, and Medical Examinations 02/03/04 (04-004)
Class I Research and Test Reactor Effluent and Environmental

<u>PART</u>

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
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 Àvailability, 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)
	Fire Protection (Annual / Quarterly) 07/07/04 (05-018)
71111.05T	
71111.06	Flood Protection Measures 01/17/02 (02-001)

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 Regualification 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) Personnel Performance Related to Nonroutine Plant Evolutions 71111.14 and Events 07/07/03 (03-023) Operability Evaluations 02/02/04 (04-003) 71111.15 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) Temporary Plant Modifications 06/06/05 (05-015) 71111.23 Reactor Safety-Emergency Preparedness 07/09/02 (02-027) 71114 71114.01 Exercise Evaluation 07/09/02 (02-027) Alert and Notification System Testing 07/09/02 (02-027) 71114.02 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) Drill Evaluation 07/09/02 (02-027) 71114.06 Occupational Radiation Safety 03/06/02 (02-008) 71121 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) Radioactive Gaseous and Liquid Effluent Treatment and 71122.01 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) Physical Protection 02/19/04 (04-007) 71130 71130.01 Access Authorization 07/28/05 (05-021) Access Control 02/16/04 (04-007) 71130.02 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) Inspection of Security Plan Changes 02/19/04 (04-007) 71130.06 Security Training 02/19/04 (04-007) 71130.07 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) Performance Indicator Verification 10/06/04 (04-025) 71151 71152 Identification and Resolution of Problems 09/08/03 (03-032) 71153 Event Followup 06/24/03 (03-020)

PAR	r	
	PROCEDUI	RE
	71707	
	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 Tes	ting
	72300	Startup Test Presedure Poview 01/20/84 (84.04)
	72300	Startup Test Procedure Review 01/20/84 (84-04) Startup Test Results Evaluation 01/20/84 (84-04)
	72302	Startup Test Witnessing and Observation 01/20/84
	72400B	(84-04) 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
	72517B	the Control Room (Group A) 07/01/80 (80-16) Startup Test Procedure Review: Loss of Offsite Power
	70510D	(Group A & B) 07/01/80 (80-16) Startup Test Presedure Review Core Performance
	72518B	Startup Test Procedure Review - Core Performance 07/01/80 (80-16)
	72524	Initial Fuel Loading Witnessing 01/20/84 (84-04)
	72526 72532	BWR Initial Criticality Witnessing 01/20/84 (84-04) Power Level Plateau Data Review (BWR) 01/20/84 (84-04)
	72564B	Precritical Test Procedure Review - Protective Trip
	120010	Circuit or Rod Drop Measurement 07/01/80 (80-16)
	72566B	Precritical Test Procedure Review - RES Lead Test or
	72570B	or Pressurizer Effectiveness 07/01/80 (80-16) 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)

PROCEDURE

Power Ascension Test Procedure Review - Loss of Offsite Power (Group A) 07/01/80 (80-16)
Power Ascension Test Procedure Review: Shutdown from Outside the Control Room (Group B) 07/01/80 (80-16)
Power Ascension Test Procedure Review - Evaluation of Flux Asymmetry or Pseudo Rod Ejection Test 04/30/75 (75-16)
PWR Initial Criticality Witnessing 01/20/84 (84-04)
Precritical Data Review 07/01/80 (80-16)
Power Level Plateau Data Review (25% PWR) 07/01/80 (80-16)
Power Level Plateau Data Review (50% PWR) 07/01/80 (80-16)
Power Level Plateau Data Review (75% PWR) 07/01/80 (80-16)
Power Level Plateau Data Review (100% PWR) 07/01/80 (80-16)
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 <u>Reserved</u>
- 7500 Reserved
- 7600 Reserved
- 7700 <u>Reserved</u>

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)]

PROCEDURE

78200	Corrective Action (Pre-Licensing and Construction)
78300	[04/02/03 (03-008)] Supplier/Vendor Inspection (Pre-Licensing and Construction)
	[04/02/03 (03-008)]

7900 Water Chemistry

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

8000 Environmental Protection

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	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
01004	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,
01010	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)

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	
81431	of Moderate Strategic Significance 06/13/85 (85-23) 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)	
01010	Alarm Stational $02/10/01/(01/002)$	
81910 81911	Alarm Stations 02/19/91 (91-003) 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 81925	MAA Barriers 02/19/91 (91-003) 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	

<u>PART</u>

PROCEDURE

FROCEDORE	
	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)

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)

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 Sterotactic 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 88002	On-Site Construction 04/15/94 (94-011) 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)

8900

9000

PROCEDURE

PROCEDUR		
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)	
	$\frac{1}{16} = \frac{1}{16} $	
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	
00101	(Pre-licensing and Construction) 05/18/05 (05-013)	
88110	Quality Assurance: Problem Identification, Resolution and	
00110	Corrective Action 05/18/05 (05-013)	
88130	Resident Inspection Program for On-Site Construction Activities at	
00100	the Mixed Oxide Fuel Fabrication Facility 05/18/05 (05-013)	
88134	Quality Assurance: Piping Relied on for Safety) 05/18/05 (05-013)	
00134	Quality Assurance. Fiping Relied on for Salety) 05/10/05 (05-013)	
Fuel Facility and Materials Special Program		
89001	In-Situ Leach (ISL) Facilities 09/02/97 (97-013)	
Reportable Matters and Report Reviews		
90501B	Reportable Matters - Startup Test Program 04/30/75 (75-16)	
90700	Feedback of Operational Experience Information at Operating	
00710	Power Reactors 03/23/05 (05-008)	

- Inoffice Review of Written Reports of Nonroutine Events at Power Reactor Facilities 12/31/98 (98-020) In Office Review of Periodic and Special Reports 09/17/01 (01-017) Nonroutine Reporting Program 09/17/01 (01-017) 90712
- 90713
- 90714

9100 Title 10 Requirements

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 Óperations After a Strike 08/21/92 (92-010)
92901	Followup - Plant Óperations 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 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

TABLE OF CONTENTS

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 Reserved
- 9900 <u>Guidance²</u>

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

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

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 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)

IECHNICA	IECHNICAL 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 toDetect 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)		
<u>Maintenance</u>			
	Voluntary Entry Into Limiting Conditions For Operation Action		

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

<u>Mechanical</u>

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)

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