NRC INSPECTION MANUAL

TABLE OF CONTENTS

Table of Contents Current through Change Notice 05-004 Issued 01/27/05 PART CHAPTER NRC Inspection Manual¹ 0000 Policy and Guidance for Development of NRC Inspection Manual Programs 04/30/97 (97-005) Preparing, Revising, and Issuing Documents for the NRC Inspection Manual 02/02/04 (04-003) 0030 0040 0100 Program Responsibilities Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities 03/06/02 (02-008) Monitoring Activities for the DOE West Valley Demonstration Project 03/04/02 (02-006) 0102 0111 0200 Program Management Reports 0230 Morning Report 11/18/02 (02-043) 0300 Inspection Policy Announced and Unannounced Inspections 03/24/94 (94-010) Coordination of NRC Visits to Commercial Reactor Sites 08/24/01 (01-016) Item Reporting 11/30/99 (99-019) 0300 0301 0303 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 07/27/04 (04-020) Technical Basis for Performance Indicators 0308, Att 1 10/06/04 (04-025) 0308, Att 2 **Technical Basis for Inspection Program** 01/26/05 (05-003) 0308, Att 3 Technical Basis for Significance Determination Process

09/10/04 (04-023)

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

0308, Att 3, A	App A Technical Basis for At Power Significance Determination Process 07/27/04 (04-020)
0308, Att 3, A	App B Technical Basis for Emergency Preparedness Significance Determination Process 07/27/04 (04-020)
0308, Att 3, A	App C Technical Basis for Occupational Radiation Safety Significance Determination Process 07/27/04 (04-020)
0308, Att 3, A	App D Technical Basis for Public Radiation Safety Significance Determination Process 07/27/04 (04-020)
0308, Att 3, A	App F Technical Basis for Fire Protection Significance Determination Process [IMC 0609, Appendix F] At Power Operations 05/28/04 (04-016)
0308, Att 3, A	App G Technical Basis for Shutdown Operations Significance Determination Process 05/25/04 (04-015)
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 07/27/04 (04-020)
0308, Att 3, A	App J Technical Basis for Steam Generator Tube Integrity Findings Significance Determination Process 05/06/04 (04-010)
0308, Att 4	Technical Basis for Assessment 07/27/04 (04-020)
0308, Att 5	Technical Basis for Enforcement 07/27/04 (04-020)
0309	Reactive Inspection Decision Basis For Reactors 11/05/03 (03-036)
0312	Technical Assistance for Radiation Safety Inspections at Nuclear Fuel Cycle Facilities and Materials Licensees' Sites 06/06/02 (02-023)
0330	Guidance for NRC Review of Licensee Draft Documents 07/08/96 (96-015)
0350	Oversight of Operating Reactor Facilities in a Shutdown Condition With Performance Problems 12/31/03 (03-042)

<u>PART</u>

CHAPTER

- 0400 Enforcement Policy
- 0500 Tracking Systems

0600 Documentation of Program Findings

0608 0609 0609.01	Performance Indicator Program 12/01/04 (04-027) Significance Determination Process 03/21/03 (03-010) 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 0609 App A	Senior Reactor Analyst Support Objectives 08/16/01 (01-015) Determining the Significance of Reactor Inspection Findings for At- Power Situations 12/01/04 (04-027)
0609 App B	Emergency Preparedness Significance Determination Process 03/06/03 (03-007)
0609 App C	Occupational Radiation Safety Significance Determination Process 12/16/03 (03-041)
0609 App D	Public Radiation Safety Significance Determination Process 07/24/03 (03-025)
	Interim Physical Protection - Significance Determination Process 08/14/01 (01-014)
	Fire Protection Significance Determination Process 05/28/04 (04-016)
	Att 1 Part 1: Fire Protection SDP Phase 1 Worksheet 05/28/04 (04-016)
	Att 2 Degradation Rating Guidance Specific to Various Fire Protection Program Elements 05/28/04 (04-016)
	Att 3 Guidance for Identifying Fire Growth and Damage Scenarios 05/28/04 (04-016)
0609, App F,	Att 4 Fire Ignition Source Mapping Information: Fire Frequency, Counting Instructions, Applicable Fire Severity Characteristics, and Applicable Manual Fire Suppression Curves 05/28/04 (04-016)
•••	Att 5 Characterizing Non-Simple Fire Ignition Sources 05/28/04 (04-016)
0609, App F,	Att 6 Guidance for the Identification of Targets and Their Ignition and Damage Criteria 05/28/04 (04-016)
•••	Att 7 Guidance for Fire Growth and Damage Time Analysis 05/28/04 (04-016)
	Att 8 Guidance for Fire Non-Suppression Probability Analysis 05/28/04 (04-016)
	Shutdown Operations Significance Determination Process 05/25/04 (04-015)
	Att 1 Shutdown Operations Significance Determination Process Phase 1 Operational Checklists for Both PWRs and BWRs 05/25/04 (04-015)
	Att 2 Phase 2 Significance Determination Process Template for PWR During Shutdown 05/25/04 (04-015)
0609, App G,	Att 3 Phase 2 Significance Determination Process Template for BWR During Shutdown 05/25/04 (04-015)

0609 App H	Containment Integrity Significance Determination Process 05/06/04 (04-010)
0609 App I	Operator Requalification - Human Performance Significance Determination Process 03/27/02 (02-011)
0609 App J	Steam Generator Tube Integrity Findings Significance Determination Process 05/06/04 (04-010)
0610	Inspection Reports 05/18/04 (04-014)

	0612, Exh 1 0612, Exh 2 0612, Exh 3 0612, Exh 4 0612, App A 0612, App B 0612, App C 0612, App D	 Power Reactor Inspection Reports 01/14/04 (04-001) Standard Reactor Inspection Report Outline 06/20/03 (03-021) Inspection Report Documentation Matrix 06/20/03 (03-021) Sample Reactor Inspection Report 06/20/03 (03-021) Sample Cover Letters 06/20/03 (03-021) List of Acronyms Used in IMC 0612 06/20/03 (03-021) Issue Screening 06/20/03 (03-021) Documentation Guidance For Supplemental Inspections 06/20/03 (03-021) Guidance for Documenting Inspection Procedure 71152, "Identification and Resolution of Problems" 06/20/03 (03-021) Examples of Minor Issues 06/20/03 (03-021) Research and Test Reactor Inspection Reports 06/23/04 (04-018) Inspection Documents and Records 07/08/96 (96-015) 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 - Improving the Regulatory Process	
	0801	Reactor Oversight Process Feedback Program 01/27/05 (05-004)
0900	Reporting of	Events/Incidents
	0970	Potentially Generic Questions Identified by Regional Offices 12/11/00 (00-024)
1000	Regional Offi	ice 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 Re	quirements
	1201 1202	Conduct of Employees 06/29/99 (99-010) Senior Resident Inspector Site Turnover 01/17/02 (02-001)

*

1220	Processing of NRC Form 241, "Report of Proposed Activities
	In Non-Ägreement States," Area's 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)
	I Inspection of Agreement State Licensees 05/01/03 (03-013)
1230	Quality Assurance Program for Radiological Confirmatory
(000	Measurements 10/01/83 (83-12)
1232	Collection, Preparation, and Shipment of Independent
4040	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
1045 4# 1	Regulation Programs 06/29/04 (04-019)
1245 Att 1	General Overview of the Inspector Training and Qualification
1245 Att 2	Program 05/01/03 (03-014) Inspector Competencies 04/05/02 (02-014)
1245 Att3	General Orientation Topics 04/05/02 (02-014)
	Basic-level Training and Certification Journal 08/24/04 (04-022)
	General Proficiency-Level Training and Qualification Journal
1210 App B	06/29/04 (04-019)
1245 App C1	
- 1-1	Qualification Journal 08/24/04 (04-022)
1245 App C2	Reactor Engineering Inspection Technical Proficiency Training
	and Qualification Journal 08/24/04 (04-022)
1245 App C3	
_	Qualification Journal 08/24/04 (04-022)
1245 C4	Reactor Safeguards Inspector Technical Proficiency Qualification
1015.05	Journal 04/05/02 (02-014)
1245 C5	Research and Test Reactor Inspector Technical Proficiency
1045 App CG	Qualification Journal 04/05/02 (02-014)
1245 App C6	
1245 C8	Training and Qualification Journal 08/24/04 (04-022) Vender Inspector Technical Proficiency Qualification Journal
1245 00	05-28/03 (03-017)
1245 C9	Construction Inspector Technical Proficiency Qualification Journal
1240 00	05/01/03 (03-014)
1245 App C1	0 Operator Licensing (OL) Examiner Technical Proficiency
	Training and Qualification Journal 08/24/04 (04-022)
1245 D1	Senior Reactor Analyst Training and Qualification Program
	01/24/03 (03-001)
1245 D3	Engineering Specialties Training Areas 04/05/02 (02-014)
1246	Formal Qualification Programs in the Nuclear Material Safety
	and Safeguards Program Area 01/05/01 (01-002)
	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)

CHAPTER

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	Uranium Recovery Inspector 01/05/01 (01-002)
Sec. XIII	Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002)
Sec. XIV	High-Level Waste Repository Inspector 04/14/03 (03-012)
Sec. XV	High-Level Waste Repository License Technical Reviewer 04/14/03 (03-012)
Sec. XVI	Training Requirements for Sealed Source and Device Reviewers 02/11/04 (04-006)
1246 APP B	NRC Inspector, License Reviewer and Project
	Manager/Technical Reviewer Training and Qualification Journal 01/05/01 (01-002)
Sec. I	Materials License Reviewer 01/05/01 (01-002)
Sec. II	Materials Health Physics Inspector 01/05/01 (01-002)
Sec. III	Fuel Cycle Safety Inspector 01/05/01 (01-002)
Sec. IV	Fuel Cycle Safeguards Inspector - Physical Security 01/05/01 (01-002)
Sec. V	NMSS Headquarters Fuel cycle Safeguards Inspector Material Control and Accounting (MC&A) 01/05/01 (01-002)
Sec. VI	NMSS Headquarters Transportation Packaging and Dry Storage System Safety Inspector 01/05/01 (01-002)
Sec. VII	Fuel cycle License Reviewer 01/05/01 (01-002)
Sec. VIII	Waste Management Inspector and License Reviewer 01/05/01 (01-002)
Sec. IX	Decommissioning Inspector 01/05/01 (01-002)
Sec. X	Decommissioning Project Manager/Technical Reviewer 04/14/03 (03-012)
Sec. XI	Materials Exempt Distribution License Reviewer 01/05/01 (01-002)
Sec. XII	Uranium Recovery Inspector 01/05/01 (01-002)
Sec. XIII	Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002)
Sec. XIV	High-Level Waste Repository Inspector 04/14/03 (03-012)
Sec. XV	High-Level Waste Repository License Technical Reviewer 04/14/03 (03-012)
Sec. XVI	Technical Reviewer Qualification Journal Byproduct Material Sealed Source and Device Reviewers 02/11/04 (04-006)

- 1300 Incident Response
 - 1301 Response to Non-Emergency Incidents Involving Radioactive Material 10/20/00 (00-022)

CHAPTER

	1302	Action Levels For Radiation Exposures and Contamination Associated With Materials Events Involving Members of the Public 12/21/07 (07, 010)
	1303	Public 12/31/97 (97-019) 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)
1400	Reserved	
	1415	State Contracts for Environmental Monitoring 06/28/91 (91-009)
1500	Reserved	
1600	Emergency F	Preparedness
	1601	Communication Protocol For Assessing Offsite Emergency Preparedness Following a Natural Disaster 06/24/03 (03-020)
1700	<u>Reserved</u>	
1800	<u>Reserved</u>	
1900	<u>Reserved</u>	
2000	Reserved	
2100	Reserved	
2200	Nuclear Sec	urity 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)

- 02/19/04 (04-007) 2201 App B Supplemental Inspection Program 02/19/04 (04-007) 2201 App C Generic, Special, and Infrequent Inspections 02/19/04 (04-007) 2201 App D Facility Status Reviews 02/19/04 (04-007)

PART CHAPTER

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

2400 Low Level Waste Program

2401	Near-Surface Low-Level Radioactive Waste Disposal
	Facility Inspection Program 11/27/01 (01-028)
2410	Conduct of Observation Audits 07/12/00 (00-012)

2500 Reactor Inspection Program

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)
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 2515	Startup Test Program Inspection Procedures 04/15/94 (94-018) Reactor Inspection Program - Operations Phase 02/02/04 (04-003)
2515 App A 2515 App B	
2515 App C	
2515 App D	
2515/111	Electrical Distribution System Followup Inspection 08/06/03 (03-028)
2515/142	Draindown During Shutdown and Common-Mode Failure (NRC Generic Letter 98-02)) 06/18/99 (99-009)
2515/147	Expanded Table-Top Drill Evaluation 08/14/02 (02-030) (Note this TI contains safeguards material)
2515/148 Rev. 2	Inspection of Nuclear Reactor Safeguards - Interim Compensatory Measures 03/19/03 (03-009)
2515/149	Mitigating systems Performance Index Pilot Verification 09/24/02 (02-034)
2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration
Rev. 2 2515/151	Nozzles (NRC Bulletin 2002-02) 08/04/03 (03-026) Expanded Pilot Force-on-Force Exercise Evaluation 02/06/03 (03-002)
2515/152 Rev. 1	Reactor Pressure Vessel Lower Head Penetration Nozzles
2515/153	(NRC Bulletin 2003-02) 11/05/03 (03-036) Reactor Containment Sump Blockage (NRC Bulletin 2003-01) 10/03/03 (03-035)
2515/154	Spent Fuel Material Control and Accounting at Nuclear Power Plants 11/26/03 (03-038)
2515/155	Mark I and Mark II Containment Vulnerabilities 12/12/03 (03-040) Note: TI withheld from public disclosure since

PART CHAPTER

2515/156	it contains sensitive security information. Offsite Power System Operational Readiness 04/29/04 (04-009)
2515/157	Mark I and Mark II Containment Operations
2010/10/	05/06/04 (04-012) Note: TI withheld from public disclosure since it contains sensitive security information
2515/158	Functional Review of Low Margin/Risk Significant Components and Human Actions 06/14/04 (04-017)
2515/159	Review of Generic Letter 89-13: Service Water System Problems Affecting Safety-Related Equipment 07/29/04 (04-021)
2515/160	Pressurizer Penetration Nozzles and Steam Space Piping
	Connections in U.S. Pressurized Water Reactors (NRC Bulletin 2004-01) 10/06/04 (04-025)
2516	Policy and Guidance For The License Renewal Inspection
2010	Program 04/10/02 (02-016)
2530	Integrated Design Inspection Program 04/24/85 (85-17)
2535	Design Verification Programs 03/24/89 (89-007)
2545	Research and Test Reactor Inspection Program 06/23/04 (04-018)
2561	Decommissioning Power Reactor Inspection Program
2561/002	
2561/003	Re-Examination of Year 2000 (Y2K) Program Activities at Selected Decommissioning Reactors 11/30/99 (99-019)
2561/004	Safeguards and Emergency Preparedness Inspection of Interim Compensatory Measures at Decommissioning Power Reactors 04/22/03 (03-011)

2600 Fuel Cycle Facility Inspection Program

2600	Fuel Cycle Facility Operational Safety and Safeguards
2600/003	Inspection Program 04/14/03 (03-012) Operational Safety Review 07/29/04 (04-021)
2600/003	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 Inspection Program For Fuel Cycle Facilities and Materials Licensees 06/04/97 (97-007)
2603	Inspection of the Nuclear Chemical Process Safety Program at Fuel Cycle Facilities 01/16/96 (96-001)
2604	Licensee Performance Review 06/28/02 (02-024)
2605	Decommissioning Procedures For Fuel Cycle and Material Licensees 11/12/96 (96-022)
2610	Inspection Program at Nuclear Fuel Services Plant Erwin, Tennessee 01/09/86 (86-01)
2620	On-Site Construction Reviews of Remedial Action at Inactive Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation Control Act) 10/05/01 (01-020)

<u>PART</u>

CHAPTER

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 Nuclear Fuel Facilities Possessing Strategic Special Nuclear Material (SNMM) 08/08/03 (03-029)
2682	Technical Assistance for Safeguards MC&A Inspections at
2002	Fuel Facilities 06/18/84 (84-18)
2683	MC&A Safeguards Inspection of Fuel Facilities 07/22/99 (99-011)
2690	Inspection Program For Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations 12/03/01 (01-029)
2690 App A	
2690 App B	Inspection Program for an ISFSI Located Away From Any Reactor Site 12/03/01 (01-029)

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

2800 Materials Inspection 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	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)
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	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)

PROCEDURE

- 3000 <u>Management Meetings</u> 30800B Initial Management Meeting - Materials Licensees 10/01/76 (76-26)
- 3100 <u>Reserved</u>
- 3200 <u>Reserved</u>
- 3300 Reserved
- 3400 Reserved
- 3500 Quality Assurance

35002	Early Site Permit Pre-Docketing Quality Assurance Controls Meeting 05/29/03 (03-018)
35004	Pre-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
35006	Post-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
35012	Early Site Permit Quality Assurance Controls Assessment and Conclusion 05/29/03 (03-018)
35301	Preoperational Testing - Quality Assurance 08/06/03 (03-028)
35501 35701	QA for the Startup Test Program 01/20/84 (84-04) Quality Assurance Program Review 09/17/01 (01-017)
00101	

3600 Organization and Administration

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

3700 Design, Design Changes, Modifications

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

PART	-	
3800	PROCEDURE Procurement	
	38703	Commercial Grade Dedication 04/08/96 (96-007)
3900	Records	
	39701	Records Program 09/17/01 (01-017)
4000	Review and Au	<u>idit</u>
	40001 40002 40500	Resolution of Employee Concerns 06/03/97 (97-006) Inspections to Review Allegations 06/28/02 (02-024) Effectiveness of Licensee Process to Identify, Resolve, and Prevent Problems 05/03/99 (99-008)
	40801	Self-Assessment, Auditing, and Corrective Action at Permanently Shutdown Reactors 08/11/97 (97-012)
4100	<u>Training</u>	
	41500	Training and Qualification Effectiveness 06/13/95 (95-007)
4200	Procedures	
	42001 42700 P	Emergency Operating Procedures 06/28/91 (91-009) lant Procedures 11/15/95 (95-015)
4300	Vendor Proced	lures
	43001 R	eactive Inspection of Nuclear Vendors 10/11/94 (94-018)
4400	<u>Reserved</u>	
4500	Geotechnical/F	oundation
	45051 G	Seotechnical/Foundation Activities Procedure Review 05/29/03 (03-018)
4600	Structural Cond	<u>crete</u>
4700	Containment (F	Post-Tensioning)
4800	Structural Stee	I and Supports

PROCEDURE

4900 <u>Piping</u>

49001	Inspection of Erosion/Corrosion Monitoring Programs 12/11/98 (98-019)
49055	Reactor Coolant Pressure Boundary Piping Record Review 08/16/82 (82-07)

5000 Mechanical Components and Equipment

50001	Steam Generator Replacement Inspection 09/06/00 (00-015)
50002	Steam Generators 12/31/96 (96-024)
50090	Pipe Support and Restraint Systems 08/06/03 (03-028)
50100	Heating, Ventilating, and Air Conditioning Systèms
	08/06/03 (03-028)

5100 Electrical Components and Systems

51053	Electrical Components and systems - Work Observation	on
	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
- 5700 Nondestructive Examination, Destructive Examination and Fabrication Testing
 - 57050 Visual Testing Examination 03/09/99 (99-003)

PROCEDURE

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

- 5800 Special Processes
- 5900 Reserve Shutdown System
- 6000 Fuel Fabrication, Handling and Storage

60705 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)
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)

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

6200 Maintenance

62002	Inspection of Structures, Passive Components, and Civil Engineering Features at Nuclear Power Plants 12/31/96 (96-024)
62003	Inspection of Steel and Concrete Containments at Nuclear
	Power Plants 06/11/97 (97-008)
62706	Maintenance Rule 12/13/00 (00-028)
62709	Configuration Risk Assessment and Risk Management Process 12/28/00 (00-029)
62710	Power-Operated Gate Valve Pressure Locking and Thermal Binding 01/17/02 (02-001)
62708	Motor-Operated Valve Capability 09/12/00 (00-018)
62801	Maintenance and Surveillance at Permanently Shutdown Reactors 08/11/97 (97-012)

- 6300 Construction Testing
- 6400 Fire Prevention/Protection
 - 64704 Fire Protection Program 06/24/98 (98-010)
- 6500 <u>Reserved</u>
- 6600 <u>Reserved</u>
- 6700 Reserved
- 6800 <u>Reserved</u>

6900 Non-Power Reactor Inspection

69001 69002	Class II Research and Test Reactors 02/03/04 (04-004) 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)

PROCEDURE

69007	Class I Research and Test Reactor Review and Audit and Design Change Functions 02/03/04 (04-004)
69008 69009	Class I Research and Test Reactor Procedures 02/03/04 (04-004) Class I Research and Test Reactor Fuel Movement 02/03/04 (04-004)
69010 69011	Class I Research and Test Reactor Surveillance 02/03/04 (04-004) 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

est Procedure
5-36)
,
7/86 (86-13)

7100 Operations (License & TS Requirements)

71001	Licensed Operator Requalification Program Evaluation 07/23/98 (98-011)
71002	License Renewal Inspection 09/18/00 (00-019)
71003	Post-Approval Site Inspection for License Renewal 12/09/02 (02-044)
71004	Power Uprate 07/09/02 (02-027)
71005	Inspector Review of Licensing-Related Information 08/05/03 (03-027)
71007	Reactor Vessel Head Replacement Inspection 07/10/03 (03-024)
71111	Reactor Safety-Initiating Events, Mitigating Systems,
	Barrier Integrity 05/06/03 (03-015)
71111.DS	Safety System Design and Performance Capability
	05/06/03 (03-015)
71111.EP	Equipment Availability, and Functional Capability 05/06/03 (03-015)
71111.HS	Heat Sink Performance 05/06/03 (03-015)
71111.ST	Post-Maintenance and Surveillance Testing 05/06/03 (03-015)
	Adverse Weather Protection 04/13/04 (04-008)
71111.02	Evaluation of changes, Tests, or Experiments 07/07/03 (03-023)
71111.04	Equipment Alignment 01/17/02 (02-001)
71111.05AQ	Fire Protection (Annual / Quarterly) 09/10/04 (04-023)
71111.05T	Fire Protection (Triennial) 12/01/04 (04-027)
71111.06	Flood Protection Measures 01/17/02 (02-001)
71111.07	Heat Sink Performance 01/17/02 (02-001)
71111.08	Inservice Inspection Activities 05/11/04 (04-013)
71111.11	Licensed Operator Requalification Program 12/16/03 (03-041)
71111.12	Maintenance Effectiveness 07/01/02 (02-025)
71111.13	Maintenance Risk Assessments and Emergent Work Evaluation

PART PROCEDURE

71111.14	01/17/02 (02-001) Personnel Performance Related to Nonroutine Plant Evolutions and Events 07/07/03 (03-023)	
74444 45		
71111.15	Operability Evaluations 02/02/04 (04-003)	
71111.16	Operator Workarounds 01/17/02 (02-001)	
71111.17	Permanent Plant modifications 01/17/02 (02-001)	
71111.19	Post Maintenance Testing 01/17/02 (02-001)	
71111.20	Refueling and Outage Activities 05/06/04 (04-011)	
71111.21	Safety System Design and Performance Capability	
	04/13/04 (04-008)	
71111.22	Surveillance Testing 05/11/04 (04-013)	
71111.23	Temporary Plant Modifications 01/17/02 (02-001)	
71114	Reactor Safety-Emergency Preparedness 07/09/02 (02-027)	
71114.01	Exercise Evaluation 07/09/02 (02-027)	
71114.02		
	Alert and Notification System Testing 07/09/02 (02-027)	
71114.03	Emergency Response Organization Augmentation Testing 07/09/02 (02-027)	
71114.04	Emergency Action Level and Emergency Plan Changes 07/09/02 (02-027)	
71114.05	Correction of emergency Preparedness Weaknesses and	
71114.00	Deficiencies 07/09/02 (02-027)	
71114.06	Drill Evaluation 07/09/02 (02-027)	
71121	Occupational Radiation Safety 03/06/02 (02-008)	
71121.01	Access Control to Radiologically Significant Areas	
	03/06/02 (02-008)	
71121.02	ALARA Planning and Controls 03/06/08 (02-008)	
71121.03	Radiation Monitoring Instrumentation 03/06/02 (02-008)	
71122	Public Radiation Safety 01/24/03 (03-001)	
71122.01	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems 01/24/03 (03-001)	
71122.02	Radioactive Material Processing and Transportation	
74400.00	01/24/03 (03-001)	
71122.03	Radiological Environmental Monitoring Program (REMP) 01/24/03 (03-001)	
71130	Physical Protection 02/19/04 (04-007)	
71130.01	Access Authorization 02/19/04 (04-007)	
71130.02	Access Control 02/16/04 (04-007)	
71130.03	Contingency Response - Force-On-Force Testing	
	11/10/04 (04-026)	
71130.04	Equipment Performance, Testing Maintenance 02/19/04 (04-007)	
71130.05	Protective Strategy Evaluation 02/19/04 (04-007)	
71130.06	Inspection of Security Plan Changes 02/19/04 (04-007)	
71130.07	Security Training 02/19/04 (04-007)	
71130.08	Fitness For Duty Training 02/19/04 (04-007)	
71130.09	Owner-Controlled Area Controls 02/19/04 (04-007)	
71150	Discrepant or Unreported Performance Indicator Data	
	03/06/01 (01-006)	
71151	Performance Indicator Verification 10/06/04 (04-025)	
71152	Identification and Resolution of Problems 09/08/03 (03-032)	
71153	Event Followup 06/24/03 (03-020)	
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	
-		

PART PROCEDURE

	(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 72301 72302	Startup Test Procedure Review 01/20/84 (84-04) Startup Test Results Evaluation 01/20/84 (84-04) Startup Test Witnessing and Observation 01/20/84 (84-04)
72400B	Overall Startup Test Program 07/01/80 (80-16)
72500B	Initial Fuel Loading Procedure 04/30/75 (75-16)
72502B	Initial Criticality Procedure Review (BWR) 04/30/75 (75-16)
72504B	Heatup Phase Procedure Review 04/30/75 (75-16)
72508B	Power Ascension Procedure Review: HPCI System 07/01/80 (80-16)
72509B	Power Ascension Procedure Review: Control Rod Drive System 07/01/80 (80-16)
72510B	Power Ascension Procedure Review - Relief Valves and MSIVs 04/30/75 (75-16)
72512B	Startup Test Procedure Review - RCIC or Recirculation Pump Trip 04/30/75 (75-16)
72514B	Startup Test Procedure Review - Turbine Trip/Generator Trip 07/01/80 (80-16)
72516B	Startup Test Procedure Review - Shutdown From Outside the Control Room (Group A) 07/01/80 (80-16)
72517B	Startup Test Procedure Review: Loss of Offsite Power (Group A & B) 07/01/80 (80-16)
72518B	Startup Test Procedure Review - Core Performance 07/01/80 (80-16)
72524	Initial Fuel Loading Witnessing 01/20/84 (84-04)
72526	BWR Initial Criticality Witnessing 01/20/84 (84-04)
72532	Power Level Plateau Data Review (BWR) 01/20/84 (84-04)
72564B	Precritical Test Procedure Review - Protective Trip Circuit or Rod Drop Measurement 07/01/80 (80-16)
72566B	Precritical Test Procedure Review - RES Lead Test or or Pressurizer Effectiveness 07/01/80 (80-16)
72570B	Initial Criticality Procedure Review (PWR) 07/01/80 (80-16)
72572B	Low Power Test Procedures Review Moderator Temperature Coefficient and Boron Worth or Control Rod Worth and Pseudo Rod Ejection Worth 07/01/80 (80-16)
72576B	Power Ascension Test Procedure Review - Natural Circulation or Power Reactivity Coefficient Measurement 07/01/80 (80-16)

72578B	Power Ascension Test Procedure Review - Evaluation of
	Core Performance 07/01/80 (80-16)
72580B	Power Ascension Test Procedure Review - Turbine Trip or Generator Trip 07/01/80 (80-16)

PROCEDURE

72582B	Power Ascension Test Procedure Review - Loss of Offsite Power (Group A) 07/01/80 (80-16)
72583B	Power Ascension Test Procedure Review: Shutdown from Outside the Control Room (Group B) 07/01/80 (80-16)
72584B	Power Ascension Test Procedure Review - Evaluation of Flux Asymmetry or Pseudo Rod Ejection Test 04/30/75 (75-16)
72592	PWR Initial Criticality Witnessing 01/20/84 (84-04)
72596B	Precritical Data Review 07/01/80 (80-16)
72600B	Power Level Plateau Data Review (25% PWR) 07/01/80 (80-16)
72608B	Power Level Plateau Data Review (50% PWR) 07/01/80 (80-16)
72616B	Power Level Plateau Data Review (75% PWR) 07/01/80 (80-16)
72624B	Power Level Plateau Data Review (100% PWR) 07/01/80 (80-16)
72701	Modification Testing 04/14/92 (92-004)

7300 Inservice Inspection

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

- 7400 <u>Reserved</u>
- 7500 <u>Reserved</u>
- 7600 Reserved
- 7700 <u>Reserved</u>

7800 High Level Waste

78060	Design Control (Pre-Licensing and Construction)
78070	[04/02/03 (03-008)] 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)]

<u>PART</u>

PROCEDUR	E
----------	---

78160	Control of Measuring and Test Equipment (Pre-Licensing and Construction) [04/02/03 (03-008)]
78170	Handling, Storage, and Shipping of Materials and Equipment (Pre-Licensing and Construction) [04/02/03 (03-008)]
78200	Corrective Action (Pre-Licensing and Construction)
78300	Supplier/Vendor Inspection (Pre-Licensing and Construction) [04/02/03 (03-008)]

7900 Water Chemistry

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

8000 Environmental Protection

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

8100 Physical Security

02/02/04 (04-003)81018Security Plan and Implementing Procedures 05/09/84 (84-1)81020Management Effectiveness - Security Program 05/09/84 (84-1)91020Security Program 05/09/84 (84-1)	5) -15)
81020 Management Effectiveness - Security Program 05/09/84 (84	-15)
	10)
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)	
81054 Physical Barriers - Vital Areas, Material Access Areas, and	
Controlled Access Areas 05/09/84 (84-15)	
81058 Security System Power Supply 05/09/84 (84-15)	
81062 Lighting 05/09/84 (84-15)	
81064 Compensatory Measures 05/09/84 (84-15)	
81066 Assessment Aids_05/09/84 (84-15)	
81070 Access Control - Personnel 05/09/84 (84-15)	
81072 Access Control (Power Reactor) - Packages 05/09/84 (84-15	5)
81073 Access Control (Fuel Facility) - Packages, Material, and SSNM 05/09/84 (84-15)	
81074 Access Control - Vehicles 05/09/84 (84-15)	
81078 Detection Aids - Protected Areas 05/09/84 (84-15)	
81080 Detection Aids - VA, MAA, and CAA 05/09/84 (84-15)	
81084 Alarm Stations 05/09/84 (84-15)	
81088 Communications 05/09/84 (84-15)	
81110 Operational Safeguards Response Evaluation (OSRE) 09/08/00 (00-017)	
81310 Physical Protection of Shipments of Irradiated Fuel	

PROCEDURE

FROCLDO	
	02/20/86 (86-09)
81335	Physical Protection of Shipments of SNM of Moderate
	Štrategic 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
01000	Quantities of Special Nuclear Material in Transit
	08/20/86 (86-40)
81365	Records, Reports, and Planning for Physical Protection
01305	
	of Formula Quantities of Special Nuclear Material in
04070	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
01001	05/09/84 (84-15)
81700	Physical Security Program for Power Reactors
01100	07/01/97 (97-010)
81810	Protection of Safeguards Information 02/09/87 (87-03)
81815	Authorizations for Access to National Security Information
01015	(NSI) and Restricted Data (RD) 04/30/97 (97-005)
81820	(NOI) and Restricted Data (RD) 04/30/97 (97-003) Develoal Distoction Easility Approval and Safaguarding
01020	Physical Protection Facility Approval and Safeguarding
	of National Security Information (NSI) and Restricted
04040	Data (RD) 04/30/97 (97-005)
81910	Alarm Stations 02/19/91 (91-003)
81911	Assessment 02/19/91 (91-003)
81912	Badge Control 02/19/91 (91-003)
81913	Communications 02/19/91 (91-003)
81914	Duress Alarms 02/19/91 (91-003)
81915	EECP Machine Performance - Explosive Detectors
	02/19/91 (91-003)
81916	EECP Machine Performance - Metal Detectors
	02/19/91 (91-003)
81917	EECP Machine Performance - X-ray 02/19/91 (91-003)
81918	Emergency Power Supply 02/19/91 (91-003)
81919	Interior Alarms 02/19/91 (91-003)
01020	Intrusion Dotaction System 02/10/01 (01 002)

- Intrusion Detection System 02/19/91 (91-003) Isolation Zone 02/19/91 (91-003) Keys, Locks, and Combinations 02/19/91 (91-003) Lighting 02/19/91 (91-003) 81920
- 81921
- 81922
- 81923

PROCEDURE

- 81924 MAA Barriers 02/19/91 (91-003)
- Personnel Searches 02/19/91 (91-003) 81925
- 81926 Preventative Maintenance 02/19/91 (91-003)
- Protected Area Barriers 02/19/91 (91-003) 81927
- 81928 Protected Area Housekeeping 02/19/91 (91-003)
- Strategic Special Nuclear Material Exit Searches 81929 02/19/91 (91-003)
- Tactical Response Team Exercises 02/19/91 (91-003) Vehicle Barriers 02/19/91 (91-003) Vehicle Escorts 02/19/91 (91-003) 81930
- 81931
- 81932
- 81933 Vehicle Searches 03/18/91 (91-005)
- 81934
- Warehouse Searches 03/18/91 (91-005) Weapons Qualification 02/19/91 (91-003) 81935
- 8200 Emergency Planning

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

8300 Radiation Protection

83100	Occupational Exposure During SAFSTOR and DECON 12/30/91 (91-022)
83501	Significant Uncontrolled Radiation Exposures 04/17/00 (00-006)
83502.01	Radioactive Gaseous and Liquid Treatment and Monitoring Systems 04/17/00 (00-006)
83502.02	Radioactive Material Process and Transportation 04/17/00 (00-006)
83502.03	Radiological Environmental Monitoring Program and Radioactive Material Control Program 04/17/00 (00-006)
83521	Radiation Protection - Startup 01/01/84 (84-01)
83722	Radiation Protection, Plant Chemistry, and Radwaste:
	Organization and Management Controls (Minimum/Basic) 09/17/01 (01-017)
83723	General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03 (03-041)
83724	External Occupational Exposure Control and Personal Dosimetry 04/17/00 (00-006)
83725	Internal Exposure Control and Assessment 04/17/00 (00-006)
83726	Control of Radioactive Materials and Contamination, Surveys, and Monitoring 09/17/01 (01-017)
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

PROCEDURE

	(91-021)
83750	Occupational Radiation Exposure 06/06/02 (02-023)
83801	Inspection of Final Surveys at Permanently Shutdown Reactors 01/28/02 (02-003)
83822	Radiation Protection 09/07/00 (00-016)
83890	Closeout Inspection and Survey 05/01/03 (03-013)

8400 Radioactive Waste Management

84100	Special Nuclear Material Inspections At Near Surface Low-Level Waste Disposal Facilities In Agreement States 11/27/01 (01-028)
84101	Radioactive Waste Management 12/30/91 (91-022)
84521	Radwaste - Startup 01/01/84 (84-01)
84750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring 03/15/94 (94-006)
84850	Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR 20 and 10 CFR 61 06/06/02 (02-023)

- 84900 Low-Level Radioactive Waste Storage 10/20/00 (00-022)
- 8500 Material Control and Accountability

85102	Material Control and Accounting - Reactors 03/29/85 (85-10)
85200	MC&A for Licensees Possessing Less Than or Equal to One Effective Kilogram of SNM 04/10/85 (85-15)
85203	Facility Organization and Management Controls 01/17/86 (86-04)
85205	Facility Operations and Internal Controls 04/10/85 (85-15)
85207	Measurement Systems 01/17/86 (86-04)
85209	Measurement Control and Statistics 04/10/85 (85-15)
85211	Physical Inventory 01/17/86 (86-04)
85215	Records and Reports 01/17/86 (86-04)
85301	MC&A for Imports and Exports 07/18/84 (84-22)
85303	MC&A Management Structure and Personnel Training and Qualification 03/18/91 (91-005)
85305	Item Monitoring 03/18/91 (91-005)
85307	Process Monitoring 03/18/91 (91-005)
85309	Measurement Systems and Control 03/18/91 (91-005)
85311	Physical Inventory 03/18/91 (91-005)
85313	Alarm Resolution 03/18/91 (91-005)
85315	Accounting and Internal Control 03/18/91 (91-005)
85401	Management Structure 07/22/99 (99-011)
85402	Measurement Control 07/22/99 (99-011)
85403	Measurement Control Program 07/22/99 (99-011)

- 85404
- 85405
- Physical Inventory 10/23/96 (96-021) Item Control Program 07/22/99 (99-011) Resolution Program 10/23/96 (96-021) 85406

PROCEDURE

85407	Assessment Program 07/22/99 (99-011)
85408	Recordkeeping 07/22/99 (99-011)
85420	Inspection of IAEA Safeguards for Inspectors at Power
05405	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

Maintaining Effluents From Materials Facilities As Low As Is Reasonably Achievable (ALRA) 04/04/00 (00-005)
Inspection of Material Licensees Involved in an Incident or Bankruptcy Filing 11/03/00 (00-023)
Decommissioning Inspection Procedure for Materials Licensees 07/29/02 (02-029)
Industrial Radiography Programs 12/31/02 (02-047)
Irradiator Programs 12/31/02 (02-047)
Well Logging Programs 11/25/03 (03-037)
Fixed and Portable Gauge Programs 11/25/03 (03-037)
Materials Processor/Manufacturer Programs 12/31/02 (02-047)
Industrial/Academic/Research Programs 12/31/02 (02-047)
Radiopharmacy Programs 12/31/02 (02-047)
Master Materials Program 09/15/03 (03-034)
Nuclear Medicine Programs, Written Directive Not Required 10/24/02 (02-041)
Nuclear Medicine Programs, Written Directive Required 10/24/02 (02-041)
Brachytherapy Programs 10/24/02 (02-041)
Medical Gamma Sterotactic Radiosurgery and Teletherapy Programs 10/24/02 (02-041)
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)

PART		
8800	PROCEDUR Fuel Facility	
	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 88010 88015	Management Organization and Controls 12/20/96 (96-025) Operator Training/Retraining 05/23/84 (84-17) Headquarters Nuclear Criticality Safety Program
	88020	12/20/96 (96-025) Regional Criticality Safety Inspection Program 12/20/96 (96-025)
	88025 88035 88045 88050 88055 88056 88057 88058 88060 88061 88062 88063 88064 88065 88066 88100 88101 88102 88103 88104	Maintenance and Surveillance Testing 05/23/84 (84-17) Radioactive Waste Management 05/23/84 (84-17) Environmental Protection 05/23/84 (84-17) Emergency Preparedness 04/08/96 (96-007) Fire Protection 01/14/91 (91-001) Process Safety Information 01/16/96 (96-001) Hazard Identification Information 01/16/96 (96-001) Standard Operating Procedures 01/16/96 (96-001) Ste-Wide Safety Procedures 01/16/96 (96-001) Detection and Monitoring 01/16/96 (96-001) Chemical Safety Training 01/16/96 (96-001) Maintenance and Inspection 01/16/96 (96-001) Management of Change 01/16/96 (96-001) Emergency Response Procedures 01/16/96 (96-001) Incident Investigation 01/16/96 (96-001) Audits and Inspection 01/16/96 (96-001) Plant Operations 12/30/96 (96-026) Configuration Control 12/30/96 (96-026) Surveillance Observations 12/30/96 (96-026) Decommissioning Inspection Procedure For Fuel Cycle Facilities 07/03/02 (02-026) Management Organization and Controls 12/30/96 (96-026)
8900	Fuel Facility	and Materials Special Program
	89001	In-Situ Leach (ISL) Facilities 09/02/97 (97-013)
9000	Reportable I	Matters and Report Reviews
	90501B	Reportable Matters - Startup Test Program 04/30/75 (75-16)
	90712 90713 90714	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)

PROCEDURE

9100 <u>Title 10 Requirements</u>

9200 Planned Non-Routine Activities

Review of Quality Assurance For Extended Construction Delay 04/04/00 (00-005)
Onsite Followup of Written Reports of Nonroutine Events at Power Reactor Facilities 12/31/98 (98-020)
Followup 03/14/94 (94-005)
Followup on Corrective Actions for Violations and Deviations 03/14/94 (94-005)
Followup of Confirmatory Action Letters 11/08/01 (01-025)
Licensee Plans for Coping With Strikes 08/21/92 (92-010)
Continued Implementation of Strike Plans During an Extended Strike 08/21/92 (92-010)
Resumption of Normal Operations After a Strike 08/21/92 (92-010)
Followup - Plant Operations 09/17/01 (01-017)
Followup - Maintenance 09/17/01 (01-017)
Followup - Engineering 09/17/01 (01-017)
Followup - Plant Support 09/17/01 (01-017)

9300 Non-Routine Activities

93001 93702	OHSA Interface Activities 02/11/04 (04-006) Prompt Onsite Response To Events At Operating Power Reactors 09/17/01 (01-017)
93800 93801	Augmented Inspection Team 10/23/02 (02-039) Safety System Functional Inspection (SSFI) 07/25/96
93802	(96-016) 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 93806	Maintenance Program 08/06/93 (93-070) 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)

PROCEDURE

- 9400 <u>Technical Activities of an Administrative Nature</u>
- 9500 Strategic Determination Actions

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

- 9600 <u>Reserved</u>
- 9700 <u>Reserved</u>
- 9800 <u>Reserved</u>

PART TECHNICAL GUIDANCE

9900 Guidance²

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

Technical Guidance

Reg. Guide 1.16,	Para. C.2.a(2) and C.2.b(2) - Reporting Requirements - Degraded Mode 04/01/79 (79-05)
Reg. Guide 1.16,	Para. C.2.a(3) - Reporting Requirements - Abnormal Degradation 04/01/78 (78-11)
Reg. Guide 1.16,	Para. C.2.a(4) - Reporting Requirements - Reactivity Anomalies 07/01/78 (78-24)
Reg. Guide 1.33 - "	Procedure Implementation" as used in Section 6.8.1 of Standard Technical Specifications 04/01/77 (77-05)
Reg. Guide 1.58 - 0	Qualifications of Nuclear Power Plant Inspection, Examination and Testing Personnel 04/01/77 (77-05)
ASME Secton III	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III 06/16/89 (89-011)
ASME Section III	American Society of Mechanical Engineers ASME Boiler and & XI Pressure Vessel Code, Section III & XI 11/12/96 (96-022)
ASME Section IX	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section IX 05/12/86 (86-26)
ASME Section XI	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section XI 12/08/86 (86-54)
ASME Section XI	American Society of Mechanical Engineers ASME, Section XI 05/12/86 (86-26)
IEEE	Institute of Electrical and Electronic Engineers IEEE Standard 450- 1975 05/12/86 (86-26)
ANSI	American National Standards Institute ANSI N18.7-1972 Section 5.1.5 05/12/86 (86-26)
ANSI	ANSI N18.7, Section 5.2.7 - Design and Construction Type Activities Conducted During the Operations Phase (Maintenance and Modifications) 04/01/77 (77-05)

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

PART TECHNICAL GUIDANCE			
ANSI	ANSI N45.2.9, Section 5.5 - Records Storage Facility 1/01/82 (81-28)		
ANSI	ANSI N45.2.9, Section 5.6 - NRC Criteria for Records Storage Facilities 07/01/80 (80-17)		
ANSI	ANSI/ASME NQA-1-1989, Supplement 17S-1, Section 5 09/17/90 (CN-010) (90-010)		
STS Sec 1.0	Operability 05/12/86 (86-26)		
STS Sec 1.0	Definitions 12/08/86 (86-54)		
STS Sec 1.0	Operable/Operability 10/31/91 (91-015)		
STS Sec 3.0	Acceptable Measurement Tolerances for Technical Specification Limits 10/01/78 (78-35)		
STS Sec 3.0	Operability and Action Statement Requirements 07/01/80 (80-17)		
STS Sec 3.0	Voluntary Entry Into Action Statement 01/01/82 (81-28)		
STS Sec 3.0	Resolution of Degraded and Nonconforming Conditions 10/23/97 (97-018) [STS30DEG.TG]		
STS Sec 3.0.3	Limiting Conditions for Operations 08/31/87 (87-30)		
STS Sec 3.0 and Sec 4.0	Limiting Conditions for Operation and Surveillance Requirements 07/22/87 (87-26)		
STS Sec 3/4.6.4	Containment and Drywell Isolation Valves 06/09/88 (88-06)		
STS Sec 3.7.5	Ultimate Heat Sink 11/25/88 (88-17)		
STS Sec 3/4.8.1	TDI Diesel Generator Air Roll Tests 06/09/88 (88-06)		
STS Sec 4.2.8.X.X	Surveillance Requirements - 125-Volt Battery Bank 10/01/79 (79-22)		
STS Sec 4.5.1	Standard Technical Specifications (BWR) 05/12/86 (86-26)		
STS Sec 4.7.9	Surveillance of Snubber Piston Settings 04/01/81 (81-08)		
STS Sec 4.7.9.1.a	Establishment of Visual Inspection Intervals for Snubbers 10/01/78 (78-35)		
STS Sec 4.7.9.1(a)	Hydraulic Snubber Inspection Schedule 01/01/79 (78-48)		
STS Sec 4.7.9.6	Operability of Hydraulic Snubbers With Empty Reservoirs 10/01/80 (80-24)		

TECHNICAL GUIDANCE

STS Sec 4.8.1.1.2 - 05/12/86 (86-26)

- STS Sec 6.5.1 Onsite Committee Review of Unit Operations 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 Licensee Review Responsibility for Proposed Changes to Facility Technical Specifications 01/01/82 (81-28)
- STS Sec 6.5.2.8 Requirements for Off-Site Committee Audit Functions 10/01/78 (78-35)
- STS Sec 6.9.1.7 Reporting Requirements Reportable Occurrences 04/01/78 (78-11)
- STS Surveillance Sections Locked or Otherwise Secured Components 10/01/77 (77-25)
- STS Interp Licensee Technical Specification Interpretations 02/03/97 (97-001)

Maintenance

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

Mechanical

Freeze Plugs 06/14/93 (93-005)

- Steam Generator Plugs and Sleeving Repairs 08/01/94 (94-014)
- Steam Generator Tube-to-Secondary Leakage 09/09/03 (03-033) [TG_Mech SGTUBELKG.wpd]

Operations

Issue Date: 01/27/05

TECHNICAL GUIDANCE

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

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

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

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

PART 10 CFR GUIDANCE

10 CFR GUIDANCE

	CFR Discussions Containment Integrated Leak Rate T 12/08/86 (86-54)	esting
	Title 10 of the Code of Federal Regulations 12/08/86 (8	36-54)
10 CFR 30	License Condition, "Used by or under the supervision of 10/01/79 (79-23)	of"
10CFR71 and 49CFR171-178	Transportation of Radioactive Material 12/01/04 (04-02	27)
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 -Pr Reactor Containment Leakage Testing for Water-Co 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 Operation, 10/01/80 (80-24)	Plans for
Part 50, App B	Applicability of Appendix B to Chemicals and Reagents 04/01/77 (77-05)	З,
Part 50, App B	Criterion II - Maintenance of Proficiency for Personnel Activities Affecting Quality 07/01/81 (81-19)	Performing
Part 50, App B	Criterion VII - Guidance - Use of Certificate of Conform 04/01/80 (80-08)	ance
Part 50, App B	Criterion VII - Guidance - Procurement of Spare and R Parts, 01/01/82 (81-28)	eplacement
Part 50, App B	Criterion VII - Control of Purchased Materials, Equipme Services 06/02/71 (71-16)	ent and
Issue Date: 01/27/	/05 - 33 - TABLE OF	CONTENTS

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