#### **TABLE OF CONTENTS**

Table of Contents Current through Change Notice 11-001 issued 02/09/11

#### **PART**

**CHAPTER** 

#### 0000 NRC Inspection Manual<sup>1</sup>

0040 Preparing, Revising, and Issuing Documents for the NRC

Inspection Manual 10/29/09 (09-025)

#### 0100 Program Responsibilities

0102	Oversight and Ob	iectivity of Ins	pectors and	Examiners

at Reactor Facilities 08/22/05 (05-023)

0111 Monitoring Activities for the DOE West Valley

Demonstration Project 03/04/02 (02-006)

#### 0200 Program Management Reports

#### 0300 Inspection Policy

0300	Announced and Unannounced Inspections 03/24/94 (94-010)
0301	Coordination of NRC Visits to Commercial Reactor Sites
	08/24/01 (01-016)
0305	Operating Reactor Assessment Program 12/24/09 (09-032)
0306	Information Technology Support for the Reactor Oversight
	Process 12/04/08 (CN 08-034)

Issue Date: 02/09/11 1 TABLE OF CONTENTS

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

#### **CHAPTER**

0307	Reactor Oversight Process Self-Assessment Program 03/23/09 (09-010)
0307 App A	Reactor Oversight Process Self-Assessment Metrics 03/23/09 (09-010)
0307 Ann B	ROP Realignment Process 04/09/09 (09-011)
0307 App B	Reactor Oversight Process (ROP) Basis Document
0306	11/08/07 (07-035)
0308, Att 1	Technical Basis for Performance Indicators
0000 440	11/08/07 (07-035)
0308, Att 2	Technical Basis for Inspection Program 10/16/06 (06-027)
0308, Att 3	Technical Basis for Significance Determination Process
•	10/16/06 (06-027)
0308, Att 3, A	App A Technical Basis for At Power Significance Determination
	11/08/07 (07-035)
0308, Att 3, A	App B Technical Basis for Emergency Preparedness Significance Determination Process 07/28/05 (05-022)
0308 Att 3	App C Technical Basis for Occupational Radiation Safety
0000, 7 111 0, 7	Significance Determination Process 07/28/05 (05-022)
0308 Att 3	App D Technical Basis for Public Radiation Safety
0000, 7 111 0, 7	Significance Determination Process 07/27/04 (04-020)
0308 AH 3	App F Technical Basis for Fire Protection Significance
0000, 7111 0, 7	Determination Process [IMC 0609, Appendix F] At Power
	Operations 02/28/05 (05-007)
0308 AH 3	App G Technical Basis for Shutdown Operations Significance
0300, All 3, 7	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 07/28/05 (05-022)
0308, Att 5	Technical Basis for Enforcement 10/16/06 (06-027)
0308, Att 6	Basis Document for the Security Cornerstone of the Reactor
5 5 5 5 7 m 5	Oversight Process 09/08/09 (09-021)
0309	Reactive Inspection Decision Basis for Reactors 02/02/10 (10-004)
0310	Components within the Cross-Cutting Areas 2/23/10 (10-006)
0312	Technical Assistance for Radiation Safety Inspections at Nuclear
0012	Fuel Cycle Facilities and Materials Licensees' Sites
	06/06/02 (02-023)
0313	Industry Trends Program 05/29/08 (08-016)
0313	Operating Reactor Security Assessment Program
0020	04/09/09 (09-011)

## **PART** CHAPTER 0330 Guidance for NRC Review of Licensee Draft Documents 07/08/96 (96-015)Oversight of Operating Reactor Facilities in a Shutdown Condition 0350 With Performance Problems 12/15/06 (06-035) Reserved for Oversight of Reactor Facilities in an Extended 0351 Shutdown Condition for Reasons Other Than Significant Performance Issues 400 **Enforcement Policy** 0410 Reserved for Operations - Notices of Enforcement Discretion 0410 App A Reserved for NOEDs during a Pandemic 0500 Tracking Systems 0600 <u>Documentation of Program Findings</u>

0608	Performance Indicator Program 02/27/07 (07-007)
0609	Significance Determination Process 08/05/08 (08-023)
0609.01	Significance and Enforcement Review Panel Process
	08/05/08 (08-023)
0609.02	Process for Appealing NRC Characterization of Inspection
	Findings (SDP Appeal Process) 01/31/08 (08-004)
0609.03	Senior Reactor Analyst Support Expectations 07/26/06 (06-018)
0609.04	Phase 1 - Initial Screening and Characterization of Findings
0600 App A	01/10/08 (08-002)
0609 App A	Determining the Significance of Reactor Inspection Findings for At- Power Situations 01/10/08 (08-002)
0609 App B	Emergency Preparedness Significance Determination Process
0000 / App 2	03/06/03 (03-007)
0609 App C	Occupational Radiation Safety Significance Determination
	Process 08/19/08 (08-024)
0609 App D	Public Radiation Safety Significance Determination Process
	02/12/08 (08-007)
0609 App E	Baseline Physical Protection Significance Determination Process 07/21/05 (05-020)
0609 App E I	Part I Baseline Security Significance Determination Process for
	Power Reactors 01/27/10 (10-003)
0609 App E I	Part II Force-on-Force Physical Protection Significance
	Determination Process 07/21/05 (05-020)
0609 App F	Fire Protection Significance Determination Process
0000 4== 5	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
,p · ,	Protection Program Elements 02/28/05 (05-007)
	· ,

#### CHAPTER

- 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)
- 0609 App L B.5.b Significance Determination Process 12/24/09 (09-032)
- 0609 App M Significance Determination Process Using Qualitative Criteria 12/22/06 (06-036)
- 0610 Inspection Reports 05/18/04 (04-014)
- Power Reactor Inspection Reports 04/30/10 (CN 10-013)
- 0612, Exh 1 Standard Reactor Inspection Report 12/04/08 (CN 08-034)
- 0612, Exh 2 Inspection Report Documentation Matrix 12/04/08 (CN 08-034)
- 0612, Exh 3 Sample Reactor Inspection Report (temporarily suspended pending revision
- 0612, Exh 4 Sample Cover Letters 05/15/09 (09-013)
- 0612, App A List of Acronyms Used in IMC 0612 12/04/08 (CN 08-034)
- 0612, App B Issue Screening 12/24/09 (CN 09-032)
- 0612, App C Documentation Guidance for Supplemental Inspections 02/02/09 (09-004)
- 0612, App D Guidance for Documenting Inspection Procedure 71152, "Identification and Resolution of Problems" 06/22/06 (06-015)
- 0612, App E Examples of Minor Issues 08/11/09 (09-020)
- 0612, App F Examples of Cross-cutting Aspects 06/22/06 (06-015)

<u>CHAPTE</u>	<u>=R</u>
0613	Documenting 10 CFR Part 52 Construction Inspections 12/02/09 (09-029)
0614	Documenting 10 CFR 52 Construction Audit Activities 10/03/07 (07-030)
0615	Research and Test Reactor Inspection Reports 06/23/04 (04-018)
0616	Fuel Cycle Safety and Safeguards Inspection Reports 07/29/08 (08-021)
0617	Vendor and Quality Assurance Implementation Inspection Reports 10/29/09 (09-025)
0620 0630	Inspection Documents and Records 05/15/09 (09-013) Analysis of the Impact of Noncompliance with Physical Security Requirements 10/01/82 (82-09)
0700 <u>Commur</u>	nications with Licensees
0730	Generic Communications Regarding Materials and Fuel Cycle Issues 03/21/08 (08-011)
0800 <u>Feedbac</u>	ck - Improving the Regulatory Process
0801 0802	Reactor Oversight Process Feedback Program 07/06/10 (10-015) Reserved for the Part 52 Program
0900 Reportin	g of Events/Incidents
0970	Potentially Generic Questions Identified by Regional Offices 12/11/00 (00-024)
1000 Regiona	l Office Program Interfaces
1007	Interfacing Activities between Regional Offices of NRC and OSHA 02/11/04 (04-006)
1100 Notificati	ons of Meetings and Conferences
1120	Preliminary Notifications 06/09/09 (09-014)
1200 <u>Inspecto</u>	r Requirements
1201 1202 1220 Issue Date: 02/	Conduct of Employees 06/29/99 (99-010) Senior Resident Inspector Site Turnover 10/31/08 (08-031) Processing of NRC Form 241, "Report of Proposed Activities 09/11 5 TABLE OF CONTENTS

Issue Date: 02/09/11 5 TABLE OF CONTENTS

## PART CHAPTER

			Non-Agreement States," Areas of Exclusive Federal
			urisdiction and Offshore Waters, and Inspection of Agreement
			tate Licensees Operating Under 10 CFR 150.20 5/01/03 (03-013)
1220,	App		rocedures and Guidelines for Processing NRC Form 241 5/01/03 (03-013)
1220,	App	II P	rocedures Letter to be Sent to Licensees with Procedures and Information for Filing NRC Form 241 05/01/03 (03-013)
0220.	aaA		respection of Agreement State Licensees 05/01/03 (03-013)
1230		Q	Quality Assurance Program for Radiological Confirmatory leasurements 10/01/83 (83-12)
1232			collection, Preparation, and Shipment of Independent
			leasurement Samples 11/18/86 (86-52)
1240			nescorted Access at Power Reactors 12/01/04 (04-027)
1245		Q	Aualification Program for Operating Reactor Programs 11/09/09
1245,	Att 1	Ġ	General Overview of the Inspector Training and Qualification rogram 07/08/09 (09/017)
1245,	Att 2	lr	nspector Competencies 10/31/06 (06-032)
1245,	Att 3		Seneral Orientation Topics 10/31/06 (06-032)
1245,	App	ΑВ	asic-Level Training and Qualification Journal 07/08/09 (09/017)
1245,	App	ВG	Seneral Proficiency-Level Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C1	Reactor Operations Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C2	Reactor Engineering Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C3	Health Physics Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C4	
1245,	App	C5	Research and Test Reactor Inspector Technical Proficiency Qualification Journal 07/08/09 (09/017)
1245,	App	C6	Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C7	Fire Protection Inspector Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C8	Vendor Inspector Technical Proficiency Qualification Journal 01/10/08 (08-001)
1245,	App	C9	Senior Reactor Analyst Training and Qualification Program 07/08/09 (09/017)
1245,	App	C10	Operator Licensing (OL) Examiner Technical Proficiency Training and Qualification Journal 07/08/09 (09/017)
1245,	App	C11	Security Risk Analyst Technical Proficiency Training and Qualification Journal 04/09/09 (09-011)
1245,	aaA	D1	Maintaining Qualifications 07/08/09 (09/017)
1245,			Inservice Inspection Advanced-Level Training 07/08/09 (09/017)
			Fire Protection Advanced-Level Training 07/08/09 (09/017)

## PART CHAPTER

1246	Formal Qualification Programs in the Nuclear Material Safety and
	Safeguards Program Area 01/05/01 (01-002)
1246, App A	Training Activities 01/05/01 (01-002)
Sec. I	Materials License Reviewer 01/05/01 (01-002)
Sec. II	Materials Health Physics Inspector 01/05/01 (01-002)
Sec. III	Fuel Cycle Safety Inspector 04/21/06 (04-009)
Sec. IV	Fuel Cycle Safeguards Inspector Physical Security
000.17	01/05/01 (01-002)
Sec. V	NMSS Headquarters Fuel Cycle Safeguards Inspector Material
000. V	Control and Accounting 01/05/01 (01-002)
A06, Att 1	Spent Fuel Storage and Transportation Training Requirements for
7100, 7111 1	Project Manager and Technical Reviewer 09/24/08 (08-027)
A06, Att 2	Training Requirements for Spent Fuel Storage and Transportation
A00, All 2	Inspector 09/24/08 (08-027)
Sec. VII	Fuel Cycle License Reviewer 01/05/01 (01-002)
Sec. VIII	Waste Management Inspectors and License Reviewers
Sec. VIII	01/05/01 (01-002)
Sec. IX	Decommissioning Inspectors 01/05/01 (01-002)
	• ,
Sec. X	Decommissioning Project Managers/Technical Reviewers
Coo VI	04/14/03 (03-012)
Sec. XI	Materials Exempt Distribution License Reviewer
Caa VII	01/05/01 (01-002)
Sec. XII	Uranium Recovery Inspector 01/05/01 (01-002)
Sec. XIII	Uranium Recovery Project Manager/Technical Reviewer
0 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	01/05/01 (01-002)
Sec. XIV	High-Level Waste Repository Inspector 05/09/06 (05-011)
Sec. XV	High-Level Waste Repository License Technical Reviewer
	04/14/03 (03-012)
Sec. XVI	Training Requirements for Sealed Source and Device Reviewers
	02/11/04 (04-006)
Sec. XVII	Training Requirements for Fuel Cycle Project Managers 11/15/10
	(10-023)
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)
B06, Att 1	Office of Nuclear Material Safety and Safeguards Qualification
<b>200</b> , 7 tt 1	Journal for Spent Fuel Storage and Transportation Project Manager
	and Technical Reviewer 09/24/08 (08-027)
B06, Att 2	Office of Nuclear Material Safety and Safeguards Qualification
200, / tt Z	Journal for Spent Fuel Storage and Transportation Inspector
	09/24/08 (08-027)
Sec. VII	Fuel cycle License Reviewer 01/05/01 (01-002)
JUJ. V 11	I GOLOVOIC EIGGIGG INGVICTOR OF TOOLOT (OT OUL)

Sec. VII Fuel cycle License Reviewer 01/05/01 (01-002)

#### **CHAPTER**

Sec. VIII	Waste Management Inspector and License Reviewer 01/05/01 (01-002)
Sec. IX	Decommissioning Inspector 01/05/01 (01-002)
Sec. X	Decommissioning Project Manager/Technical Reviewer 04/14/03 (03-012)
Sec. XI	Materials Exempt Distribution License Reviewer 01/05/01 (01-002)
Sec. XII	Uranium Recovery Inspector 01/05/01 (01-002)
Sec. XIII	Uranium Recovery Project Manager/Technical Reviewer 01/05/01 (01-002)
Sec. XIV	High-Level Waste Repository Inspector 05/09/06 (05-011)
Sec. XV	High-Level Waste Repository License Technical Reviewer 04/14/03 (03-012)
Sec. XVI	Technical Reviewer Qualification Journal Byproduct Material Sealed Source and Device Reviewers 02/11/04 (04-006)
Sec. XVII	Fuel Cycle Project Manager Qualification Journal 11/15/10 (10-023)
1247	Qualification Program for Fuel Facility Inspectors in the Nuclear Material Safety and Safeguards Program Area 02/18/09 (09-006)
1247, App A	Basic-Level Training and Certification Journal Fuel Facility Inspector 02/18/09 (09-006)
1247, App B	General Proficiency-Level Training and Qualification Journal 02/18/09 (09-006)
1247, App C	1 Fuel Facility Operations Inspector Technical Proficiency Training and Qualification Journal 02/18/09 (09-006)
1247, App C	2 Fuel Facility Health Physics Inspector Technical Proficiency Training and Qualification Journal 02/18/09 (09-006)
1247, App C	3 Fuel Facility Emergency Preparedness Inspector Technical Proficiency Training and Qualification Journal 02/18/09 (09-006)
1247, App C	5 Fuel Facility Material Control & Accounting Inspector Technical Proficiency Training and Qualification Journal 02/18/09 (09-006)
1248	Reserved for Qualification Programs for Federal and State Materials and Environmental Management Programs
1252	Construction Inspector Training and Qualification Program 12/07/09 (09-031)
1252, App A	Construction Inspector Basic-Level Training and Certification Journal 12/07/09 (09-031)
1252, App B	Construction Inspector General Proficiency-Level Training and Qualification Journal 12/07/09 (09-031)
1252, App C	Construction Inspector Post Qualification Requirements, Continuing and Refresher Training 12/07/09 (09-031)

#### 1300 Incident Response

1301	Response to Non-Emergency Incidents Involving Radioactive
	Material 10/20/00 (00-022)
1302	Action Levels for Radiation Exposures and Contamination
	Associated with Materials Events Involving Members of the Public
	07/14/05 (05-019)

PART	_	
	<u>CHAPTER</u>	Description Francisco Assentance of Dedicartics Material by the
	1303	Requesting Emergency Acceptance of Radioactive Material by the U.S. Department of Energy 11/29/07 (07-037)
	1304	Reserved for Independent Split Sampling Program for Residual Radioactivity
	1330	Response to Transportation Accidents Involving Radioactive Materials 10/06/04 (04-025)
	1360	Use of Physician and Scientific Consultants in the Medical Consultant Program 11/02/06 (06-033)
1400	Reserved	
	1415	State Contracts for Environmental Monitoring 06/28/91 (91-009)
1500	Reserved	
1600	Emergency	Preparedness Prepa
	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 Sec	urity and Incident Response
	2201 Security Inspection Program for Commercial Nuclear	
	2201 App A 2201 App B 2201 App C	Security Baseline Inspection Program 02/24/10 (10-007) Supplemental Inspection Program 09/08/09 (09-021) Generic, Special, and Infrequent Inspections 09/08/09 (09-021) Facility Status Reviews for Security and Safeguards Inspection Program 09/08/09 (09-021)

#### **PART**

#### CHAPTER

2201/001 Inspection of Additional Security Measures for Radioactive Material Quantities of Concern 09/18/06 (06-024)
 2201/001 App B Inspection Requirements and Guidance for Handling and Protection of Safeguards Information - Modified Handling 09/18/06 (06-024)
 2201/001 App C Radioactive Material Quantities of Concern Security Inspection Record 09/18/06 (06-024)
 2201/002 Inspection of Transition of Contract Security to Proprietary Security Force 04/09/09 (09-011)
 2201/003 Reserved for Fitness for Duty Part 26 Subpart K

#### 2300 High Level Waste

Yucca Mountain Inspection Program License Application Review Period 09/11/08 (08-026)

#### 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

2500/16	Inspection to determine if a Potential Seismic Interaction Exists Between the Movable In-Core Flux Mapping System and Seal Table at Westinghouse Designed Facilities or Facilities with Similar Designs 06/13/86 (reactivated 09-015)
2500/19	Inspection of Licensee's Actions Taken to Implement Unresolved Safety Issue A-26: Reactor Vessel Pressure Transient Protection for Pressurized Water Reactors 11/14/86 (reactivated 09-015)
2500	Reactor Inspection Program 11/06/86 (reactivated 09-020)
2500/020, rev. 2	Inspection to Determine Compliance with ATWS Rule, 10 CFR 50.62 08/06/03 (reactivated 09-015)
2500/26	Inspection Requirements for NRC Compliance Bulletin 87-02, "Fastener Testing to Determine Conformance with Applicable Material Specifications 11/20/87 (reactivated 09-025)
2500/27	Inspection Requirements for NRC Compliance Bulletin 87-02, "Fastener Testing to Determine Conformance with Applicable Material Specifications 05/22/89 (reactivated 09-025)
2501	Construction Inspection Program: Early Site Permit (ESP) 10/03/07 (07-030)
2502	Construction Inspection Program: Pre-Combined License (Pre-COL) Phase 12/13/10 10-026
2503	Construction Inspection Program: Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) 10/03/07 (07-030)

Issue Date: 02/09/11 10 TABLE OF CONTENTS

#### **CHAPTER**

2504	Construction Inspection Program - Inspection of Construction and
	Operational Programs 10/15/09 (09-024)
2505	Periodic Assessment of Construction Inspection Program Results
	09/09/10 (10-019)
2506	Construction Reactor Oversight Process General Guidance and
	Basis Document 10/27/10 (10-022)
2507	Construction Inspection Program: Vendor Inspections 04/27/10 (10-
	012)
2508	Construction Inspection Program: Design Certification 10/03/07
	(07-030)
2512	Light Water Reactor Inspection Program - Construction Phase
	12/17/86 (reactivated 07-032)
2512/07,	Regional Construction Assessment Team Inspections 01/27/84
rev. 2	(reactivated 08-004)
2512/15	Inspection of Watts Bar Nuclear Plant Employee Concerns
0540/040	Program 11/18/85 (reactivated 08-004)
2512/016	Inspection of Watts Bar Nuclear Plant Cable Issues Corrective
0540/047	Action Program Plan 07/13/92 (reactivated 08-004)
2512/017	Inspection of Watts Bar Nuclear Plant Cable Tray and Supports
2512/018	Corrective Action Program Plan 07/13/92 (reactivated 08-004) Inspection of Watts Bar Nuclear Plant Electrical Conduit and
2312/010	Supports Corrective Action Program Plan
	07/13/92 (reactivated 08-004)
2512/019	Inspection of Watts Bar Nuclear Plant Design Baseline Corrective
2012/010	Action Program Plan 07/13/92 (reactivated 08-004)
2512/020	Inspection of Watts Bar Nuclear Plant Electrical Issues Corrective
	Action Program Plan 07/13/92 (reactivated 08-004)
2512/021	Inspection of Watts Bar Nuclear Plant Equipment Seismic
	Corrective Action Program Plan 07/13/92 (reactivated 08-004)
2512/022	Inspection of Watts Bar Nuclear Plant Fire Protection Corrective
	Action Program Plan 07/13/92 (reactivated 08-004)
2512/023	Inspection of Watts Bar Nuclear Plant Hanger Update Corrective
	Action Program Plan 07/13/92 (reactivated 08-004)
2512/024	Inspection of Watts Bar Nuclear Plant Heat Code Traceability
	Corrective Action Program Plan07/13/92 (reactivated 08-004)
2512/025	Inspection of Watts Bar Nuclear Plant HVAC Duct and Supports
0540/000	Corrective Action Program Plan 07/13/92 (reactivated 08-004)
2512/026	Inspection of Watts Bar Nuclear Plant Instrument Lines Corrective
2512/027	Action Program Plan 07/13/92 (reactivated 08-004)
2312/02/	Inspection of Watts Bar Nuclear Plant Piece Parts/Procurement Corrective Action Program Plan 07/13/92 (reactivated 08-004)
2512/028	Inspection of Watts Bar Nuclear Plant QA Records Corrective
2312/020	Action Program Plan 07/13/92 (reactivated 08-004)
2512/029	Inspection of Watts Bar Nuclear Plant Q-List Corrective Action
2012/020	Program Plan 07/13/92 (reactivated 08-004)
2512/030	Inspection of Watts Bar Nuclear Plant Seismic Analysis Corrective
	Action Program Plan 07/13/92 (reactivated 08-004)
2512/031	Inspection of Watts Bar Nuclear Plant Vendor Information
-	Corrective Action Program Plan 07/13/92 (reactivated 08-004)
D 1 00/00/	TABLE OF CONTENTS

### <u>CHAPTER</u>

2512/032	Inspection of Watts Bar Nuclear Plant Welding Corrective Action
	Program Plan 07/13/92 (reactivated 08-004)
2512/033	Inspection of Watts Bar Nuclear Plant Concrete Quality Special
	Program 07/13/92 (reactivated 08-004)
2512/034	Inspection of Watts Bar Nuclear Plant Containment Cooling Special
	Program 07/13/92 (reactivated 08-004)
2512/035	Inspection of Watts Bar Nuclear Plant Control Room Design
	Review Special Program 07/13/92 (reactivated 08-004)
2512/036	Inspection of Watts Bar Nuclear Plant Environmental Qualification
	Special Program 07/13/92 (reactivated 08-004)
2512/037	Inspection of Watts Bar Nuclear Plant Master Fuse List Special
	Program 07/13/92 (reactivated 08-004)
2512/038	Inspection of Watts Bar Nuclear Plant Mechanical Equipment
	Qualification Special Program 07/13/92 (reactivated 08-004)
2512/039	Inspection of Watts Bar Nuclear Plant Microbe Induced Corrosion
	Special Program 07/13/92 (reactivated 08-004)
2512/040	Inspection of Watts Bar Nuclear Plant Moderate Energy Line Break
0540/044	Special Program 07/13/92 (reactivated 08-004)
2512/041	Inspection of Watts Bar Nuclear Plant Radiation Monitoring System
0540/040	Special Program 07/13/92 (reactivated 08-004)
2512/042	Inspection of Watts Bar Nuclear Plant Soil Liquefaction Special
2512/043	Program 07/13/92 (reactivated 08-004)
2312/043	Inspection of Watts Bar Nuclear Plant Use-As-Is CAQRS Special Program 07/13/92 (reactivated 08-004)
2512 App I	Light Water Reactor Inspection Program - Construction Phase –
2012 App 1	Procedure List 10/16/07 (07-032)
2513	Light Water Reactor Inspection Program – Preoperational Testing
2010	and Operational Preparedness Phase 08/05/08
	(Reactivated 08-023)
2513 App A	Light Water Reactor – Preoperational Testing Phase 08/05/08
	(reactivated 08-023)
2513 App B	Light Water Reactor – Operational Preparedness Phase 08/05/08
	(reactivated 08-023)
2514 Light	Water Reactor Inspection Program - Startup
J	Testing Phase 08/21/89 (89-013)
2514 App A	Startup Test Program Inspection Procedures 04/15/94 (94-018)
2515	Light Water Inspection Program - Operations Phase
	09/24/09 (09-022)
2515 App A	Risk-Informed Baseline Inspection Program 09/03/08 (08-025)
2515 App B	Supplemental Inspection Program 02/09/11 (11-001)
2515 App C	Special and Infrequently Performed Inspections 11/09/09 (09-026)
2515 App D	Plant Status 02/02/10 (10-004)
2515 App E	Inspection Program Modifications during a Pandemic 01/26/07 (07-
	004)
2515 App F	Reserved for Operating and New Construction Unit Interaction
2515/28	Inspection Requirements to Review Licensee Actions Taken in
	Response to IE Bulletin 79-02, Revision No. 07/01/79 (reactivated
	09-015)

#### **CHAPTER**

2515/29	Inspection Requirements for IEB 79-14 09/14/79 (reactivated 09-015)
2515/30	Inspection Requirements To Review PWR Licensee Actions Taken
2515/37	in Response to IE Bulletin No. 79-21 09/14/79 (reactivated 09-015) Inspection Requirements To Review Licensee Actions Taken in Response to IE Bulletin 80-11, Masonry Wall Design 07/03/80 (reactivated 09-015)
2515/64, rev. 1	Near-Term Inspection Followup to Generic Letter 83-28 04/04/85
2515/65,	(reactivated 09-015) TMI Action Plan Requirement Followup 07/10/90 (reactivated
rev. 2	09-015)
2515/66	Inspection Requirements for IE Bulletin 84-03, 'Refueling Cavity Water Seals 12/17/84 (reactivated 09-015)
2515/69	Inspection of Response to IE Bulletin 85-01 12/20/85 (reactivated 09-015)
2515/71	Inspection of Licensees' Actions in Response to IE Bulletin 82-02
2515/72	12/20/85 (reactivated 09-015) Inspection of Response to IE Bulletin 85-02 12/20/85 (reactivated
0-1-10-	09-015)
2515/87	Inspection of Licensee's Implementation of Multiplant Action A-17:
	Instrumentation for Nuclear Power Plants To Access Plant and
	Environs Conditions During and Following an Accident (Regulatory
	Guide 1.97) 09/17/90 (reactivated 09-015)
2515/88	Inspection of Licensee's Actions Taken to Implement NRC
	Guidelines for Protection from Flooding of Equipment Important to
	Safety 04/06/87 (reactivated 09-015)
2515/91	Inspection Followup to Generic Letter 83-28, Item 4.1 04/06/87
2010/01	(reactivated 09-015)
2515/101	,
2515/101	Loss of Decay Heat Removal (Generic Letter No. 88-17) 10 CFR
	50.54(f) (reactivated 09-015)
2515/103	Loss of Decay Heat Removal (Generic Letter No. 88-17) 10 CFR
	50.54(f) – Programmed Enhancements (Long Term) Review
	12/18/89 (reactivated 09-015)
2515/105	Inspection of Licensee Activities in Reference to NRC Bulletin 88-
	04 – Potential Safety-Related Pump Loss 05/14/90 (reactivated 09-
	015)
2515/107	Electrical Distribution System Functional Inspection (EDSFI)
2010/10/	10/19/90 (reactivated 09-015)
2515/109,	Inspection Requirements for Generic Letter 89-10, Safety-Related
•	·
rev. 4	Motor-Operated Valve Testing and Surveillance 07/23/98
	(reactivated 09-015)
	Performance of Safety-Related Check Valves 11/15/93
rev.1	(reactivated 09-015)
2515/111	Electrical Distribution System Followup Inspection 08/06/03
	(reactivated 09-015)
2515/113	Reliable Decay Heat Removal During Outages 11/18/91
-	(reactivated 09-015)
2515/114	Inspection Requirements for Generic Letter 89-04, Acceptable
_010/114	Inservice Testing Programs 01/15/92 (reactivated 09-015)
D 1 00/00/14	TABLE OF CONTENTS

#### **CHAPTER**

0545/440	Comica Mater Cretary Organianal Desferences Incorption
2515/118,	Service Water System Operational Performance Inspection
rev. 2	(SWSOPI) 03/17/95 (reactivated 09-015)
2515/120	Inspection of Implementation of Station Blackout Rule Multi-plant
2515/120	Action Item A-22 09/24/93 (reactivated 09-015)
2515/139	Inspection of Licensee's Implementation of Generic Letter 96-01 -
	Testing of Safety Related Logic Circuits 07/23/98 (reactivated 09-
0545/440	015)
2515/140	Periodic Verification of Design-Basis Capability of Safety-Related
2515/1/2	Motor-Operated Valves (GL 96-05) 09/29/98 (reactivated 09-015)
2515/142	Draindown During Shutdown and Common-Mode Failure (NRC
2515/1/5	Generic Letter 98-02) 06/18/99 (reactivated 09-015)
2515/145	Circumferential Cracking of Reactor Pressure Vessel Head
2515/1/7	Penetration Nozzles (NRC Bulletin 2001-01) 09/20/01
2515/147	Expanded Table-Top Drill Evaluation 08/14/02 (02-030)
2515/148	(Note this TI contains safeguards material) Inspection of Nuclear Reactor Safeguards - Interim Compensatory
Rev. 2	Measures 03/19/03 (03-009)
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
2313/131	02/06/03 (03-002)
2515/152,	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC
rev. 1	Bulletin 2003-02) 11/15/03 (reactivated 09-015)
2515/153,	Reactor Containment Sump Blockage (NRC Bulletin 2003-01)
rev. 1	02/18/05 (reactivated 09-015)
2515/155	Mark I and Mark II Containment Vulnerabilities
2010/100	12/12/03 (03-040) (Note: TI withheld from public disclosure since
	it contains sensitive security information)
2515/158	Functional Review of Low Margin/Risk Significant Components and
	Human Actions 06/14/04 (04-017)
	Affecting Safety-Related Equipment 07/29/04 (04-021)
2515/160	Pressurizer Penetration Nozzles and Steam Space Piping
	Connections in U.S. Pressurized Water Reactors (NRC Bulletin
	2004-01) 10/06/04 (reactivated 09-015)
2515/162	Safeguards Information 04/13/05 (05-010)
2515/164	Inspection of Nuclear Reactor Safeguards Interim Compensatory
	Measures - Section B.5.b of the February 25, 2002, Order
	[Safeguards Information] 06/28/05 (05-017)
2515/165	Operational Readiness of Offsite Power and Impact on Plant Risk
	03/03/06 (reactivated 09-025)
2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC
	Rev. 1 Generic Letter 2004-02] 05/16/07 (07-016)
2515/168	Closeout Inspection of Nuclear Reactor Safeguards Interim
	Compensatory Measures - Section B.5.b of the February 25, 2002,
	Orders. [Safeguards Information] 05/19/06 (06-012)
2515/171	Verification of Site Specific Implementation of B.5.b Phase 2 & 3
Rev. 1	Mitigating Strategies 07/25/08 (08-020)
2515/172	Reactor Coolant System Dissimilar Metal Butt Welds 05/27/10 Rev.
1	(10-014)

#### **CHAPTER**

2515/173	Pavious of the Implementation of the Industry Cround Water
Rev. 1	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative 10/31/08 (08-031)
2515/174	Hydrogen Igniter Backup Power Verification 02/12/08 (08-007)
2515/175	Emergency Response Organization, Drill/Exercise Performance
2010/170	Indicator, Program Review 06/05/08 (08-017)
2515/176	Emergency Diesel Generator Technical Specification Surveillance
2010/110	Requirements Regarding Endurance and Margin Testing 05/16/08
	08-015
2515/177	Managing Gas Accumulation in Emergency Core Cooling, Decay
Rev. 1	Heat Removal, And Containment Spray Systems (NRC Generic
	Letter 2008-01) 03/17/10 (10-009)
2515/178	Risk Management Technical Specifications Initiative 5b
	Surveillance Frequency Control Program 05/15/09 (09-013)
2515/179	Verification of Licensee Responses To NRC Requirement
Rev. 1	for Inventories of Materials Tracked in the National Source Tracking
	System Pursuant to Title 10, Code of Federal Regulations, Part
05454400	20.2207 (10 CFR 20.2207) 05/27/10 (10-014)
2515/180	Inspection of Procedures and Processes for Managing Fatigue
0515/101	10/07/09 (09-023)
2515/181	Validate the Effectiveness of the Regulatory Infrastructure Related to Fire-Induced Circuit Failures and Operator Manual Actions
	04/14/10 (10-011)
2515/182	Reserved for Review of the Implementation of the Industry Initiative
2010/102	on Underground Piping and Tanks
2516	Policy and Guidance for the License Renewal Inspection Programs
2010	02/18/05 (05-006)
2517	Watts Bar Unit 2 Construction Inspection Program 04/30/10 (CN
	10-013)
2530	Integrated Design Inspection Program 04/24/85 (reactivated 10-
	006)
2535	Design Verification Programs 03/24/89 (reactivated 10-006)
2545	Research and Test Reactor Inspection Program 06/23/04 (04-018)
2561	Decommissioning Power Reactor Inspection Program
0504/000	04/14/03 (03-012)
2561/003	Re-Examination of Year 2000 (Y2K) Program Activities at Selected
0564/004	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)
	0 <del>1</del> 122103 (03-011)

#### 2600 Fuel Cycle Facility Inspection Program

2600	Fuel Cycle Facility Operational Safety and Safeguards Inspection
	Program 01/27/10 (10-003)
2600, App A	Guidance For Conducting Fuel Cycle Inspections 08/15/07 (07-025)
2600, App B	NRC Core Inspection Requirements, Tables 1 and 2 01/27/10 (10-
	003)
2600. App C	Fuel Cycle Resident Inspection Program 04/27/10 (10-012)

Issue Date: 02/09/11 15 TABLE OF CONTENTS

#### **CHAPTER**

2600, App D 2600/014	Fuel Cycle Facility Inspection Planning 03/21/08 (08-011) Reserved for Inspection Guidance for Applying Safety Culture Components Within the Inspection and Enforcement Program for
2601	Fuel Cycle Facilities Team Assessments of Fuel Cycle and Materials Licensees
2602	05/04/90 (90-004) Decommissioning Oversight and Inspection Program for Fuel Cycle Facilities and Materials Licensees 07/29/08 (08-021)
2604 2606	Licensee Performance Review 06/28/02 (02-024) Reserved for Assessment of the Change in Risk Resulting From a Non-Compliance at a Fuel Cycle Facility
2620	On-Site Construction Reviews of Remedial Action at Inactive Uranium Mill Tailing Sites (Title I, Uranium Mill Tailings Radiation
2630	Control Act) 10/05/01 (01-020) Mixed Oxide Fuel Fabrication Facility Construction Inspection Program 05/18/05 (05-0013)
2635	Reserved for Uranium Enrichment Facility Construction and Pre- Operational Readiness Review Inspection Programs
2641	In-Situ Leach Facilities Inspection Program 08/25/00 (00-014)
2681	Physical Protection and Transport of SNM and Irradiated Fuel Inspections of Fuel Facilities 01/27/10 (10-003)
2682	Technical Assistance for Safeguards MC&A Inspections at Fuel Facilities 06/18/84 (84-18)
2683	MC&A Safeguards Inspection of Fuel Facilities 07/22/99 (99-011)
2689/009	Inspection Guidance and Requirements for Physical Protection of the Transfer, Loading and Shipment of Irradiated Special Nuclear Material from General Atomics Facility, San Diego, California to U.S. Department of Energy, Idaho National Laboratory, Scoville,
2690	Idaho 08/12/10 (10-017) Inspection Program for Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations and for
2690/008	10 CFR Part 71 Transportation Packagings 11/09/09 (09-026) Inspection of Additional Security Measures for Dry Cask Storage at Independent Spent Fuel Storage Installation(s) Located Within the Protected Area of an Operating Reactor Facility 10-018 (09/02/10)
2690/009	(Note: This TI contains safeguards material.) Inspection of Additional Security Measures for Dry Cask Storage at Independent Spent Fuel Storage Installation(s) at an Operating Reactor Facility on the Owner Controlled Area Outside of the Reactor Protected Area 10-018 (09/02/10)
2960/010	(Note: This TI contains safeguards material.) Inspection of Safeguards Compensatory Measures for Dry Cask Storage at Independent Spent Fuel Storage Installation(s) Not Co- Located at an Operating Reactor Facility 10-018 (09/02/10)
2694	(Note: This TI contains safeguards material.) USEC Inc. Gas Centrifuge Facility Construction and Pre- operational Readiness Review Inspection Programs 05/16/07 (07- 016)

#### **PART**

#### **CHAPTER**

2696 Louisiana Energy Services Gas Centrifuge Facility Construction

and Pre-Operational Readiness Review Inspection Programs

10/19/06 (06-028)

#### 2700 Licensee Contractor and Vendor Inspection Program

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

#### 2800 Materials Inspection Program

2800	Materials Inspection Program 11/15/10 (10-023)
2800/030	Verification of the Status of Devices Authorized For Use Under a General License 05/30/00 (00-011)
2800/032	Follow-up - Materials Safeguard Advisory 10/31/01 (01-023)
2800/036	Inspection of Manufacturing and Distribution Licensees 09/13/04 (04-024)
2800/037	Safety Procedures for Panoramic Irradiators 07/14/05 (05-019) Rev. 1
2800/038	Inspection of the Implementation of Increased Controls for Licensees Authorized to Possess Risk Significant Radioactive Material 03/30/06 (06-008)
2800/039	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in the National Source Tracking System Pursuant to Title 10 Code of Federal Regulations, Part 20.2207 (10 CFR 20.2207) 04/09/09 (09-011)
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

2901	Team Inspections 08/24/01 (01-016)
2920	Construction Appraisal Team Inspection Program 03/29/85 (85-11)

### GUIDANCE

# PART PROCEDURE

3000	Management Meetings	
	_	
	30050	Construction Permit Corporate Management Meeting 04/01/80 (reactivated 07-034)
	30703	Management Meetings - Entrance and Exit Interviews 01/01/82
	30800	(reactivated 08-008) Initial Management Meeting - Materials Licensees 10/01/76 (76-26)
3100	Reserved	
3200	Reserved	
3300	Reserved	
3400	Reserved	
3500	Quality Assu	<u>rance</u>
	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-Application Quality Assurance Program Audit 10/03/07 (07-030)
	35006	Post-Docketing Early Site Permit Quality Assurance Controls Inspection 05/29/03 (03-018)
	35007,	Quality Assurance Program Implementation During Construction and Pre-Construction Activities 12/13/10 (10-026)
	35012	Early Site Permit Quality Assurance Controls Assessment and Conclusion 05/29/03 (03-018)
	35017 35020	Quality Assurance Implementation Inspection 07/29/08 (08-021) Inspection of Applicant's Surveillance of Contractor Quality
		Assurance (QA) Activities 06/22/05 (05-016)
	35021	Post-Docketing Implementation of Quality Assurance (QA) Activities Related to Design, Procurement and Construction 06/22/05 (05-016)
	35023 35029	Reserved for Design Reliability Assurance Program Pre-Combined License (COL) Quality Assurance (QA) Inspection of Site Limited Work Authorization (LWA) 1 & 2 Activities 06/22/05 (05-016)
	35031	Reserved for Design Certification Pre-Meeting

#### **GUIDANCE**

35032	Reserved for Pre-Docketing Design Certification Quality Assurance Controls Inspection
35033	Reserved for Post-Docketing Design Certification Quality Assurance Controls Inspection
35034	Design Certification Testing Inspection 01/27/10 (10-003)
35060	Licensee Management of QA Activities 04/01/83 (reactivated 07-032)
35061	In-Depth QA Inspection of Performance 11/19/85 (reactivated 07-034)
35065	Procurement, Receiving, and Storage 04/01/83 (Reactivated 07-032)
35100	Review of the QA Manual 06/22/05 (05-016)
35101	QA Program Implementation Inspection for Operational Programs 10/03/07 (07-030)
35301	Preoperational Testing - Quality Assurance 08/06/03 (03-028)
35501	QA for the Startup Test Program 01/20/84 (84-04)
35701	Quality Assurance Program Review 09/17/01 (01-017)
35750	QA Program Measuring and Test Equipment 04/14/92 (reactivated 08-032)
35753	QA Program - Control of Tests & Measuring and Test Equipment 10/03/07 (07-030)
35960	QA Program Evaluation of Engineering Organization 10/01/82 (reactivated 07-034)
35962	Reserved for Part 52 QA Program Evaluation of Engineering Service Organization

#### 3600 Organization and Administration

36100	Inspection of 10 CFR Parts 21 and 50.55(e) Programs for
	Reporting Defects and Noncompliance 10/03/07 (07-030)
36301	Operational Staffing 07/01/77 (reactivated 08-032)
36302	Part 52. Operational Staffing 08/19/08 (08-024)
36801	Organization, Management, and Cost Controls at Permanently
	Shutdown Reactors 08/11/97 (97-012)

#### 3700 Design, Design Changes, Modifications

37002	Construction Refurbishment Process - Watts Bar Unit 2 02/05/10 (10-005)
37051	Verification of As-Builts 12/04/87 (reactivated 07-032)
37055	Onsite Design Activities 04/01/83 (reactivated 07-032)
37060	Reserved for Inspections under the 10CFR Part 50.69 Special
	Program
37301	Comparison of As-Built Plant to FSAR Description 03/22/85
	(reactivated 08-032)
37700	Design Changes, and Modifications 09/17/01 (01-017)

PART	<u>PART</u> GUIDANCE		
	37801	Safety Reviews, Design Changes, and Modifications at	
	37803 37804 37805	Permanently Shutdown Reactors 08/11/97 (97-012) Reserved Aircraft Impact Assessment Inspection 04/27/10 (10-012) Engineering Design Verification Inspections 04/01/10 (10-010)	
3800	Procuremen	<u>t</u>	
	38703	Commercial Grade Dedication 04/08/96 (96-007)	
3900	Records		
	39701	Records Program 09/17/01 (01-017)	
4000	Review and	<u>Audit</u>	
	40001 40002 40100 40504	Resolution of Employee Concerns 06/03/97 (97-006) Inspections to Review Allegations 06/28/02 (02-024) Reserved for Independent Safety Culture Assessment Follow-up Part 52, Identification and Resolution of Construction Problems	
	40505	10/03/07 (07-030) Reserved for Effectiveness of Process to Identify, Resolve, and Prevent Construction Problems	
	40600	Licensee Program for Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Management 03/17/10 (10-009)	
	40801	Self-Assessment, Auditing, and Corrective Action at Permanently Shutdown Reactors 08/11/97 (97-012)	
4100	Training		
	41301	Pre-Licensing Review of Training and Qualification Programs 02/18/87 (reactivated 08-032)	
	41500 41501	Training and Qualification Effectiveness 06/13/95 (95-007) Reserved for Part 52, Review of Training and Qualification Programs	
4200	Procedures		
	42001 42051 42401 42453 42454 42700	Emergency Operating Procedures 06/28/91 (91-009) Fire Prevention and Protection 10/01/77 (reactivated 08-004) Part 52, Plant Procedures10/27/10 (10-022) Part 52, Operating Procedures Inspection 08/19/08 (08-024) Part 52, Emergency Procedures 07/29/08 (08-021) Plant Procedures 11/15/95 (95-015)	

Issue Date: 02/09/11 20 TABLE OF CONTENTS

#### **GUIDANCE**

#### 4300 <u>Vendor Procedures</u>

43001	Reactive Inspection of Nuclear Vendors 10/11/94 (94-018)
43002	Routine Inspections of Nuclear Vendors 10/03/07 (07-030)
43003	Reactive Inspections of Nuclear Vendors 10/03/07 (07-030)
43004	Inspection of Commercial-Grade Dedication Programs 10/03/07 (07-030)
43005	NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 10/03/07 (07-030)

#### 4400 Reserved

#### 4500 Geotechnical/Foundation

45051	Geotechnical/Foundation Activities Procedure Review 05/29/03 (03-018)
45051.A	Geotechnical/Foundation Activities Procedure Review 03/23/84 (reactivated 08-004)
45052	Review of Geotechnical and Site Characterization Activities 10/03/07 (07-030)
45053	Geotechnical/Foundation Activities Work Observation 03/23/84 (reactivated 07-034)
45055	Geotechnical/Foundation Activities Record Review 03/23/84 (reactivated 07-034)

#### 4600 Structural Concrete

46051	Structural Concrete Procedure Review 07/01/83 (reactivated 07-034)
46053	Structural Concrete Work Observation 07/01/83 (reactivated 07-
40000	034)
46055	Structural Concrete Record Review 07/01/83 (reactivated 07-034)
46061	Structural Masonry Construction 12/17/86 (reactivated 07-034)
46071	Concrete Expansion Anchors 12/17/86 (reactivated 07-034)

#### 4700 Containment (Post-Tensioning)

#### 4800 Structural Steel and Supports

48051	Structural Steel and Supports Procedure Review 12/17/86 (reactivated 07-032)
48053	Structural Steel and Supports Work Observation 12/17/86 (reactivated 07-032)
48055	Structural Steel and Supports Record Review 07/01/83 (reactivated 07-032)

Issue Date: 02/09/11 21 TABLE OF CONTENTS

#### **GUIDANCE**

4900	<u>Piping</u>	
	49001	Inspection of Erosion/Corrosion Monitoring Programs 12/11/98 (98-019)
	49051	Reactor Coolant Pressure Boundary Piping QA Review 08/16/82 (reactivated 07-032)
	49053	Reactor Coolant Pressure Boundary Piping – Work Observation 11/19/85 (reactivated 07-032)
	49055	Reactor Coolant Pressure Boundary Piping Record Review 08/16/82 (reactivated 07-034)
	49061	Safety-Related Piping 10/01/82 (reactivated 07-034)
	49063	Piping – Work Observation 11/19/85 (reactivated 07-034)
	49065 Safety	y-Related Piping-Records Review 10/01/82 (reactivated 07-034)

#### 5000 Mechanical Components and Equipment

07-034)  Reserved for Reactor Vessel Material Surveillance Program (Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034)  Mechanical Components – Work Observation 11/19/85 (reactivate 07-034)  Safety Related Components – Records Review 04/01/83 (reactivated 07-034)  Pipe Support and Restraint Systems 08/06/03 (03-028)  Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)  Heating, Ventilating, and Air Conditioning Systems	50001	Steam Generator Replacement Inspection 03/23/09 (09-010)
Reactor Vessels and Internals QA Review 08/16/82 (reactivated 07-034)  Reactor Vessel and Internals Work Observation 08/16/82 (reactivated 07-034)  Reactor Vessel Material Surveillance Program 12/04/08 (CN 08-034)  Reactor Vessel Material Surveillance Program 12/04/08 (CN 08-034)  Reactor Vessel and Internals Record Review 08/16/82 (reactivate 07-034)  Reserved for Reactor Vessel Material Surveillance Program (Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034)  Mechanical Components – Work Observation 11/19/85 (reactivate 07-034)  Safety Related Components – Records Review 04/01/83 (reactivated 07-034)  Pipe Support and Restraint Systems 08/06/03 (03-028)  Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)  Heating, Ventilating, and Air Conditioning Systems	50002	Steam Generators 12/31/96 (96-024)
07-034) Reactor Vessel and Internals Work Observation 08/16/82 (reactivated 07-034) Reactor Vessel Material Surveillance Program 12/04/08 (CN 08-034) Reactor Vessel and Internals Record Review 08/16/82 (reactivate 07-034) Reserved for Reactor Vessel Material Surveillance Program (Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034) Mechanical Components – Work Observation 11/19/85 (reactivated 07-034) Mechanical Components – Records Review 04/01/83 (reactivated 07-034) Safety Related Components – Records Review 04/01/83 (reactivated 07-034) Pipe Support and Restraint Systems 08/06/03 (03-028) Spent Fuel Storage Racks 03/14/94 (reactivated 07-034) Heating, Ventilating, and Air Conditioning Systems	50003	Pressurizer Replacement Inspection 07/07/05 (05-018)
(reactivated 07-034) Reactor Vessel Material Surveillance Program 12/04/08 (CN 08-034) Reactor Vessel and Internals Record Review 08/16/82 (reactivate 07-034) Reserved for Reactor Vessel Material Surveillance Program (Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034) Mechanical Components – Work Observation 11/19/85 (reactivate 07-034) Safety Related Components – Records Review 04/01/83 (reactivated 07-034) Safety Related Components – Records Review 04/01/83 (reactivated 07-034) Pipe Support and Restraint Systems 08/06/03 (03-028) Spent Fuel Storage Racks 03/14/94 (reactivated 07-034) Heating, Ventilating, and Air Conditioning Systems	50051	· ·
034)  Reactor Vessel and Internals Record Review 08/16/82 (reactivate 07-034)  Reserved for Reactor Vessel Material Surveillance Program (Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034)  Mechanical Components – Work Observation 11/19/85 (reactivate 07-034)  Safety Related Components – Records Review 04/01/83 (reactivated 07-034)  Safety Related Components – Records Review 04/01/83 (reactivated 07-034)  Pipe Support and Restraint Systems 08/06/03 (03-028)  Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)  Heating, Ventilating, and Air Conditioning Systems	50053	
07-034)  Reserved for Reactor Vessel Material Surveillance Program (Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034)  Mechanical Components – Work Observation 11/19/85 (reactivate 07-034)  Safety Related Components – Records Review 04/01/83 (reactivated 07-034)  Pipe Support and Restraint Systems 08/06/03 (03-028)  Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)  Heating, Ventilating, and Air Conditioning Systems	50054	· · · · · · · · · · · · · · · · · · ·
<ul> <li>(Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034)</li> <li>Mechanical Components – Work Observation 11/19/85 (reactivate 07-034)</li> <li>Safety Related Components – Records Review 04/01/83 (reactivated 07-034)</li> <li>Pipe Support and Restraint Systems 08/06/03 (03-028)</li> <li>Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)</li> <li>Heating, Ventilating, and Air Conditioning Systems</li> </ul>	50055	Reactor Vessel and Internals Record Review 08/16/82 (reactivated 07-034)
<ul> <li>(Safety-Related Components – Procedure Review 04/01/83 (reactivated 07-034)</li> <li>Mechanical Components – Work Observation 11/19/85 (reactivate 07-034)</li> <li>Safety Related Components – Records Review 04/01/83 (reactivated 07-034)</li> <li>Pipe Support and Restraint Systems 08/06/03 (03-028)</li> <li>Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)</li> <li>Heating, Ventilating, and Air Conditioning Systems</li> </ul>	50054	Reserved for Reactor Vessel Material Surveillance Program
50075 Safety Related Components – Records Review 04/01/83 (reactivated 07-034)  Fipe Support and Restraint Systems 08/06/03 (03-028)  Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)  Heating, Ventilating, and Air Conditioning Systems	50071	
(reactivated 07-034) 50090 Pipe Support and Restraint Systems 08/06/03 (03-028) 50095 Spent Fuel Storage Racks 03/14/94 (reactivated 07-034) 50100 Heating, Ventilating, and Air Conditioning Systems	50073	Mechanical Components – Work Observation 11/19/85 (reactivated 07-034)
50095 Spent Fuel Storage Racks 03/14/94 (reactivated 07-034) 50100 Heating, Ventilating, and Air Conditioning Systems	50075	·
50100 Heating, Ventilating, and Air Conditioning Systems	50090	Pipe Support and Restraint Systems 08/06/03 (03-028)
50100 Heating, Ventilating, and Air Conditioning Systems	50095	Spent Fuel Storage Racks 03/14/94 (reactivated 07-034)
33,33,00 (33,325)	50100	Heating, Ventilating, and Air Conditioning Systems 08/06/03 (03-028)

#### 5100 Electrical Components and Systems

51051	Electrical Components and Systems – Procedure Review 03/30/84
	(reactivated 07-034)
51053	Electrical Components and systems - Work Observation
	08/06/03 (03-028)
51055	Electrical Components and Systems - Record Review
	08/06/03 (03_028)

Issue Date: 02/09/11 22 TABLE OF CONTENTS

PART	GUIDANCE	
	51061 51063 51065 51080	Electrical Cable - Procedure Review 08/06/03 (03-028) Electric Cable – Work Observation 11/19/85 (reactivated 07-034) Electric Cable – Record Review 03/30/84 (reactivated 07-034) Reserved for Equipment Qualification
5200	Instrumentat	ion Systems and Components
	52003	Digital Instrumentation and Control Modification Inspection 10/31/08 (08-031)
	52051	Instrument Components and Systems – Procedure Review 03/30/84 (reactivated 07-034)
	52053	Instrument Components and Systems – Work Observation 03/30/84 (reactivated 07-034)
	52055	Instrument Components and Systems – Record Review 03/30/84 (reactivated 07-034)
53	00 <u>Containm</u>	nent Penetrations
	53051	Containment Penetrations (Mechanical) Procedure Review 01/27/84 (reactivated 07-034)
	53053	Containment Penetrations (Mechanical) Work Observation 01/27/84 (reactivated 07-034)
	53055	Containment Penetrations (Mechanical) Record Review 01/17/84 (reactivated 07-034)
5400	Cleanliness	
5500	Welding	
	55050 55093	Nuclear Welding General Inspection Procedure 06/20/83 (83-06) Reactor Vessels Internals (Welding) Observation of Welding and Associated Activities 07/01/7 (reactivated 07-034)
	55100 55150	Structural Welding General Inspection Procedure 06/20/83 (83-06) Weld Verification Checklist 06/20/83 (reactivated 07-034)
5600	Calibration	
	56700	Calibration 03/23/05 (05-008)
5700	Nondestructi	ve Examination, Destructive Examination and Fabrication Testing
	57050 57060 57070	Visual Testing Examination 03/09/99 (99-003) Liquid Penetrant Testing Examination 03/09/99 (99-003) Magnetic Particle Testing Examination 03/09/99 (99-003)
leeua	Data: 02/00/1	. ,

**TABLE OF CONTENTS** Issue Date: 02/09/11 23

#### **PART**

#### **GUIDANCE**

	57080 57090	Ultrasonic Testing Examination 03/09/99 (99-003) Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review 06/14/93 (93-005)
5800	Special Proc	<u>esses</u>
5900	Reserve Shu	utdown System
6000	Fuel Fabrica	tion, Handling and Storage
	60501 60705 60710 60801 60851 60852 60853 60854 60854 60855 60855.1 60856 60856.1	Fuel Receipt and Storage 04/30/75 (reactivated 08-032) Preparation for Refueling 07/27/95 (95-009) Refueling Activities 07/27/95 (95-009) Spent Fuel Pool Safety at Permanently Shutdown Reactors 08/11/97 (97-012) Design Control of ISFSI Components 01/16/08 (08-003) ISFSI Component Fabrication by Outside Fabricators 01/16/08 (08-003) On-Site Fabrication of Components and Construction of an ISFSI 01/16/08 (08-003) Preoperational Testing of an Independent Spent Fuel Storage Installation 01/16/08 (08-003) Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants 09/05/06 (06-022) Operation of an Independent Spent Fuel Storage Installation 01/16/08 (08-003) Operation of an Independent Spent Fuel Storage Installation at Operating Plants 09/05/06 (06-022) Review of 10 CFR 72.212(b) Evaluations 03/05/08 (08-010) Review of 10 CFR 72.212(b) Evaluations at Operating Plants 02/02/04 (04-003) Review of 10 CFR 72.48 Evaluations 10/24/07 (07-033)
6100	60858 Surveillance	Away-From-Reactor ISFSI Inspection Guidance 05/03/07 (07-015)
	61705	Calibration of Nuclear Instrumentation Systems
	61706 61707	05/12/86 (86-25) Core Thermal Power Evaluation 07/14/86 (86-36) Determination of Reactor Shutdown Margin 10/11/85 (85-31)
	61708 61709	Isothermal and Moderator Temperature Coefficient Determinations 10/11/85 (85-31) Total Power Coefficient of Reactivity at Pressurized
	61710	Water Reactors 07/14/86 (86-36) Control Rod Worth Measurements (PWR) 10/11/85

Issue Date: 02/09/11 24 **TABLE OF CONTENTS** 

#### **PART**

#### **GUIDANCE**

	(85-31)
61715	Verification of Containment Integrity 12/23/86 (86-60)
61720	Containment Local Leak Rate Testing 10/03/85 (85-30)
61726	Surveillance Observations 06/24/98 (98-010)
61728	Independent Measurement of RCS Leak Rates for a PWR
	01/01/84 (84-02)

#### 6200 <u>Maintenance</u>

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 04/30/10 (CN 10-013)
62711	Reserved for Operational Reliability Assurance Process"
62708	Motor-Operated Valve Capability 09/12/00 (00-018)
62801	Maintenance and Surveillance at Permanently Shutdown
	Reactors 08/11/97 (97-012)

#### 6300 Construction Testing

63050 Containment Structural Integrity Test 07/01/83 (reactivated 07-034)

#### 6400 Fire Prevention/Protection

64051	Procedures – Fire Prevention/Protection 07/01/79
	(reactivated 07-034)
64053	Fire Loop Installation 07/01/79 (reactivated 07-034)
64100	Postfire Safe Shutdown, Emergency Lighting and Oil Collection
	Capability at Operating and Near-Term Operating Reactor Facilities
	03/16/87 (reactivated 10-009)
64102	Reserved for Part 52 Post fire Safe Shutdown, Emergency Lighting
	and Oil Collection Capabilities
64704	Fire Protection Program 06/24/98 (98-010)
64705	Part 52, Fire Protection Operational Program 10/03/07 (07-030)

#### 6500 10 CFR Part 52 ITAAC Inspections

65001	nspections of inspections, Tests, Analyses, and Acceptance	
	Criteria (ITAAC) Related Work 10/03/07 (07-030)	

65001.A ITAAC Attributes for As-Built Inspection 10/03/07 (07-030)

Issue Date: 02/09/11 25 TABLE OF CONTENTS

## PART GUIDANCE

65001.B	Inspection of the ITAAC-Related Welding Program 08/19/08
	(08-024)
65001.C	Inspection of the ITAAC-Related Construction Test Program
	10/03/07 (07-030)
65001.D	Inspection of the ITAAC-Related Operational Testing Program
	08/05/09 (09-019)
65001.E	Inspection of the ITAAC-Related Qualification Program 08/19/08
	(08-024)
65001.F	Inspection of the ITAAC-Related Design and Fabrication
	Requirements 08/19/08 (08-024)
65001.01	Inspection of ITAAC-Related Foundations & Buildings 10/03/07
05004.00	(07-030)
65001.02	Inspection of ITAAC-Related Installation of Structural Concrete
05004.00	10/03/07 (07-030)
65001.03	Inspection of ITAAC-Related Installation of Piping 08/19/08
CE004 04	(08-024)
65001.04	Inspection of ITAAC-Related Installation of Pipe Supports and
GE004 0E	Restraints 04/18/08 (08-012)
65001.05	Inspection of ITAAC-Related Installation of Reactor Pressure Vessel and Internals 08/19/08 (08-024)
65001.06	Inspection of ITAAC-Related Installation o Mechanical Components
03001.00	04/18/08 (08-012)
65001.07	Inspection of ITAAC-Related Installation of Valves 07/29/08
03001.07	(08-021)
65001.08	Inspection of ITAAC-Related Installation of Electric Components
00001.00	and Systems 08/19/08 (08-024)
65001.09	Inspection of ITAAC-Related Installation of Electric and Fiber Optic
	Cable 08/05/09 (09-019)
65001.10	Inspection of ITAAC-Related Installation of Instrument Components
	and Systems 10/20/08 (08-029)
65001.11	Construction Inspection Program Inspection of ITAAC-Related
	Containment Integrity and Containment Penetration 08/19/08
	(08-024)
65001.12	Inspection of ITAAC-Related Installation of Heating, Ventilating,
	and Air Conditioning Systems 07/29/08 (08-021)
65001.13	Inspection of ITAAC-Related Installation of Load Handling
	Equipment and Fuel Racks 08/05/09 (09-019)
65001.14	Inspection of ITAAC-Related Installation of Complex Systems with
	Multiple Components 07/29/08 (08-021)
65001.15	Inspection of ITAAC-Related Installation of Fire Protection
	Equipment 07/01/08 (08-019)
65001.16	Inspection of ITAAC-Related Engineering 10/03/07 (07-030)
65001.17	Inspection of ITAAC-Related Security Structures, Systems, and
05004.45	Components 10/15/09 (09-024)
65001.18	Inspection of Emergency Planning ITAAC 10/30/08 (08-030)
65001.19	Inspection of Installation of ITAAC-Related Radiation Monitoring
05054	Components and Systems 10/20/08 (08-029)
65051	Low-Level Radioactive Waste Storage Facilities 06/13/86
D ( 00/00/	(reactivated 07-034)

# PART GUIDANCE 6600 Reserved 6700 Reserved 6800 Reserved

#### 6900 Non-Power Reactor Inspection

69001	Class II Research and Test Reactors 02/03/04 (04-004)
69002	Class III Research and Test Reactors 02/03/04 (04-004)
69003	Class I Research and Test Reactor Operator Licenses,
	Requalification, and Medical Examinations 02/03/04 (04-004)
69004	Class I Research and Test Reactor Effluent and Environmental
	Monitoring 02/03/047 (04-004)
69005	Class I Research and Test Reactor Experiments 02/03/04 (04-004)
69006	Class I Research and Test Reactors Organization and Operations
	and Maintenance Activities 02/03/04 (04-004)
69007	Class I Research and Test Reactor Review and Audit and Design
	Change Functions 02/03/04 (04-004)
69008	Class I Research and Test Reactor Procedures 02/03/04 (04-004)
69009	Class I Research and Test Reactor Fuel Movement
	02/03/04 (04-004)
69010	Class I Research and Test Reactor Surveillance 02/03/04 (04-004)
69011	Class I Research and Test Reactor Emergency Preparedness
	02/03/04 (04-004)
69012	Class I Research and Test Reactors Radiation Protection
	02/03/04 (04-004)
69013	Research and Test Reactor Decommissioning 02/03/04 (04-004)

#### 7000 Preoperational Testing

Issue Date: 02/09/11

70300	Preoperational Test Procedure Test Review 10/01/83 (reactivated 08-032)
70301	Overall Preoperational Test Program Review Requirements 10/01/83 (reactivated 08-032)
70302	Preoperational Test Program Implementation 10/01/83 (reactivated 08-032)
70304	Engineered Safety Features Test - Preoperational Test Procedure Review 08/06/03 (03-028)
70305	Reactor Protection System Test Preoperational Test Procedure Review Preoperational Testing Procedure Verification 01/01/79 (reactivated 08-032)
70306	Loss of Offsite Power Test - Preoperational Test Procedure Review 01/01/79 (reactivated 09-003)
70307	Containment Integrated Leak Rate Test - Procedure Review 03/07/86 (86-13)

#### GUIDANCE

70308	Preoperational Hot Functional Testing - PWR Procedure Review)
	10/01/83 (reactivated 08-032)
70311	Preoperational Testing Procedure Verification 10/01/83 (reactivated
	08-032)
70312	Preoperational Test Witnessing 10/01/83 (reactivated 08-032)
70313	Containment Integrated Leak Rate Test 11/12/85 (85-36)
70314	HFT Witnessing 10/01/81 (reactivated 08-032)
70315	Engineered Safety Features Test Preoperational Test Witnessing)
	01/01/79 (reactivated 08-032)
70316	Loss of Offsite Power Test Preoperational Test Witnessing
	01/01/79 (reactivated 08-032)
70317	Reactor Protection System Test Preoperational Test Witnessing
	01/01/79 (reactivated 08-032)
70323	Containment Leak Rate Test Results Evaluation
	10/03/85 (85-30)
70324	Preoperational Test Results Evaluation - Integrated Hot Functional
	Test 04/01/77 (reactivated 08-032)
70325	Preoperational Test Results Evaluation - Reactor Protection
	System 01/01/79 (reactivated 08-032)
70326	Preoperational Test Results Evaluation - Loss of Offsite Power
	01/01/79 (reactivated 08-032)
70329	Preoperational Test Result Evaluation Verification 10/01/83
	(reactivated 08-032)
70331	Vibration Test- Preoperational Test Procedure Review
	01/01/79 (reactivated 09-003)
70332	Control Rod System Test - Preoperational Test Procedure
	Review 01/01/79 (reactivated 09-003)
70333	Chemical Control System Test - Preoperation Test Procedure
	Review 01/01/79 (reactivated 09-003)
70334	Engineered Safety Features Act. Sys.Test - Preoperational
	Test Procedure Review 01/01/79 (reactivated 09-003)
70335	Safety and Relief Valve Test - Preoperational Test Procedure
	Review 01/01/79 (reactivated 09-003)
70336	Residual / Decay Heat Removal System Test - Preoperational
	Test Review 01/01/79 (reactivated 09-003)
70337	Main Stream Isolation Valve Test - Preoperational Test
	Procedure Review) 01/01/79 (reactivated 09-003)
70338	Auxilliary Feedwater System Test -Preoperational Test
	Procedure Review 01/01/79 (reactivated 09-003)
70339	Component Cooling Water System Test - Preoperational; Test
	Procedure Review 01/01/79 (reactivated 09-003)
70340	D.C. Power System Test - Preoperational Test Procedure
	Review 01/01/79 (reactivated 09-003)
70341	Emergency/Standby Power Supply System Test -
	Preoperational Teat Procedure Review 01/01/79 (reactivated
	09-003)
70342	Containment Combustable Gas Control System Test -
	Preoperational Test Procedure Review 01/01/79 (reactivated
	09-003)
D 1 00/00	744 TABLE OF CONTENTO

## PART GUIDANCE

70344	Containment Isolation Vales Test - Preoperational Test
	Procedure Review 01/01/79 (reactivated 09-003)
70345	Containment Heat/Cool/Vent. System Test - Preoperational
	Test Procedure Review 01/01/79 (reactivated 09-003)
	(
70346	Aux. Bldg. Heat /Cool/Vent. System Test - Preoperational
70010	Test Procedure Review 01/01/79 (reactivated 09-003)
70347	Pressurizer and Level Control System Test- Preoperational
10041	Test Procedure Review 01/01/79 (reactivated 09-003)
70240	
70348	Main Feedwater Control System Test - Preoperational Test
70040	Procedure Review 01/01/79 (reactivated 09-003)
70349	Reactor Coolant Leak Detection System Test - Preoperational
	Test Procedure Review 01/01/79 (reactivated 09-003)
70350	Loose Parts Monitoring System Test - Preoperational Test
	Procedure Review 01/01/79 (reactivated 09-003)
70351	Integrated Reactor Control System Test - Preoperational Test
	Procedure Review 01/01/79 (reactivated 09-003)
70352	Remote Reactor Shutdown Test - Preoperational Test
	Procedure Review 01/01/79 (reactivated 09-003)
70353	Cranes, Hoists and Lifting Equipment Test - Preoperational
	Test Procedure Review 01/01/79 (reactivated 09-003)
70354	Nuclear Instrumentation System Test - Preoperational Test
70004	Procedure Review 01/01/79 (reactivated 09-003)
70355	,
70333	Compressed Gas System Test - Preoperational Test
70262	Procedure Review 01/01/79 (reactivated 09-003)
70362	Reactor Coolant System Hydrostatic Test Procedure Review
	10/01/83 (reactivated 08-032)
70367	Reserved for Part 52 Pre-operational Test Program Implementation
70368	Reserved for Part 52 Containment Leak Rate Testing
	(Programmatic)
70369	Reserved for Part 52 Containment Leak Rate Testing
70370	Testing Piping Support and Restraint Systems 03/07/86 (86-13)
70371	Reserved for Part 52 Testing of Pipe Support and Restraint System
70400	Preoperational Test Results Evaluation 10/01/83
	(reactivated 08-032)
70431	Vibration Test - Preoperational Test Witnessing 01/01/79
	(reactivated 09-003)
70432	Control Rod System Test - Preoperational Test Witnessing
. • . • =	01/01/79 (reactivated 09-003)
70433	Chemical Control System Test - Preoperational Test Witnessing
70100	01/01/79 (reactivated 09-003)
70434	Engineered Safety Features Act. Sys. Test - Preoperational Test
70434	Witnessing 01/01/79 (reactivated 09-003)
70425	` '
70435	Safety and Relief Valves Test - Preoperational Test Witnessing
70400	01/01/79 (reactivated 09-003)
70436	Residual / Decay Heat Removal System Test - Preoperational Test
70.407	Witnessing 01/01/79 (reactivated 09-003)
70437	Main Stream Isolation Valve Test - Preoperational Test Witnessing
	01/01/79 (reactivated 09-003)
D-4 00/00	MAA OO TADLE OF CONTENTO

#### **GUIDANCE**

70438	Auxilliary Feedwater System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)
70439	Component Cooling Water System Test - Preoperational Test
	Witnessing 01/01/79 (reactivated 09-003)
70440	D.C. Power System Test - Preoperational Test Witnessing 01/01/79
	(reactivated 09-003)
70441	Emergency / Standby Power Supply System Test - Preoperational
	Test Witnessing 01/01/79 (reactivated 09-003)
70442	Containment Combustible Gas Control System Test -
	Preoperational Test Witnessing 01/01/79 (reactivated 09-003)
70443	Containment Spray System Test - Preoperational Test Witnessing
	01/01/79 (reactivated 09-003)
70444	Containment Isolation Valve Test - Preoperational Test Witnessing
	01/01/79 (reactivated 09-003)
70445	Containment Heat/Cool/Vent. System Test - Preoperational Test
	Witnessing 01/01/79 (reactivated 09-003)
70446	Auxiliary Bldg. Heat/Cool/Vent. System Test - Preoperational Test
<b>70447</b>	Witnessing
70447	Pressurizer and Level Control System Test - Preoperational Test
70440	Witnessing 01/01/79 (reactivated 09-003)
70448	Main Feedwater Control System Test - Preoperational Test
70440	Witnessing 01/01/79 (reactivated 09-003)
70449	Reactor Coolant Leak Detection System Test - Preoperational Test
70450	Witnessing 01/01/79 (reactivated 09-003)
70450	Loose Parts Monitoring System Test - Preoperational Test
70451	Witnessing 01/01/79 (reactivated 09-003)
70451	Integrated Reactor Control System Test - Preoperational Test Witnessing 01/01/79 (reactivated 09-003)
70452	Remote Reactor Shutdown Test - Preoperational Test Witnessing
70432	01/01/79 (reactivated 09-003)
70453	Cranes, Hoists and Lifting Equipment Test - Preoperational Test
70400	Witnessing 01/01/79 (reactivated 09-003)
70454	Nuclear Instrumentation System Test - Preoperational Test
70101	Witnessing 01/01/79 (reactivated 09-003)
70455	Compressed Gas System Test - Preoperational Test Witnessing
	01/01/79 (reactivated 09-003)
70462	Reactor Coolant System Hydrostatic Test - Test Witnessing
	10/01/83 (reactivated 08-032)
70562	Reactor Coolant System Hydrostatic Test Results Evaluation
	10/01/83 (reactivated 08-032)
70701	Reserved
70702	Reserved

#### 7100 Operations (License & TS Requirements)

71002	License Renewal Inspection 02/18/05 (05-006)
71003	Post-Approval Site Inspection for License Renewal
	10/31/08 (08-031)

30

Issue Date: 02/09/11

#### GUIDANCE

71004	Power Uprate 04/30/10 (CN 10-013)
71007	Reactor Vessel Head Replacement Inspection 06/04/07 (07-018)
71013	Reserved for Review of License Renewal Commitments for Plants
	in Timely Renewal with Extended Delay in the NRC Review of
	Application
74444	• •
71111	Reactor Safety-Initiating Events, Mitigating Systems,
	Barrier Integrity 05/16/08 (08-015)
71111.01	Adverse Weather Protection (Effective 01/01/10) 11/09/09 (09-026)
71111.04	Equipment Alignment 02/27/07 (07-007)
71111.05AQ	Fire Protection (Annual / Quarterly) 09/30/10 (10-020)
71111.05N	Reserved for Fire Protection - NFPA 805 (Triennial)
71111.05T	Fire Protection (Triennial) 12/24/09 (09-032
71111.05T	Fire Protection (Triennial) (effective 01/01/11) 09/30/10 (10-020)
71111.0511F	PFire Protection-NFPA 805 Transition Period [Triennial] 12/24/09
74444 00	(09-032)
71111.06	Flood Protection Measures 06/25/09 (09-016)
71111.07	Heat Sink Performance 07/06/10 (10-015)
71111.08	In-service Inspection Activities (Effective 01/01/10) 11/09/09 (09-
	026)
71111.11	Licensed Operator Requalification Program 1/05/06 (06-001)
71111.12	Maintenance Effectiveness (Effective 01/01/10) 11/16/09 (09-027)
71111.13	Maintenance Risk Assessments and Emergent Work Control
	11/16/09 (Effective 01/01/10) (09-027)
71111.15	Operability Evaluations (Effective 01/01/10) 11/16/09 (09-027)
71111.13	Evaluations of Changes, Tests, or Experiments and Permanent
1 1 1 1 1 . 17	
7444440	Plant Modifications 10/31/08 (08-031)
71111.18	Plant Modifications 12/21/10 (10-028)
71111.19	Post Maintenance Testing 01/17/02 (02-001)
71111.20	Refueling and Other Outage Activities (Effective 01/01/10) 11/09/09
	(09-026)
71111.21	Component Design Bases Inspection 12/06/10 (10-025)
71111.22	Surveillance Testing 12/24/09 (09-032)
71013	Reserved for Review of License Renewal Commitments for Plants
	in Timely Renewal
71114	Reactor Safety-Emergency Preparedness 06/29/06 (06-016)
71114.01	Exercise Evaluation 06/29/06 (06-016)
71114.02	Alert and Notification System Evaluation 12/07/09 (09-031)
71114.03	Emergency Response Organization Augmentation Testing
	08/24/07 (07-026)
71114.04	Emergency Action Level and Emergency Plan Changes
	10/31/08 (08-031)
71114.05	Correction of emergency Preparedness Weaknesses and
	Deficiencies 10/25/06 (06-029)
71114.06	Drill Evaluation 10/25/06 (06-029)
71114.07	Emergency Preparedness Component, of the Force-On-Force
, 1117.01	(FOF) Exercise Evaluation 12/02/09 (09-029)
71101	
71121	Occupational Radiation Safety 03/06/02 (02-008)
71121.01	Access Control to Radiologically Significant Areas
	03/06/02 (02-008)
D 1 00/00/4	4 TABLE OF CONTENTS

## PART GUIDANCE

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 12/18/08 08-036	
71122.02	Radioactive Material Processing and Transportation	
	01/24/03 (03-001)	
71122.03	Radiological Environmental Monitoring Program (REMP)	
	01/24/03 (03-001)	
71124	Reserved for Radiation Safety - Public and Occupational 12/02/09	
	(09-030)	
71124.01	Radiological Hazard Assessment and Exposure Controls 12/02/09	
	(09-030)	
71124.02	Occupational ALARA Planning and Controls 12/02/09 (09-030)	
71124.03	In-Plant Airborne Radioactivity Control and Mitigation 12/02/09 (09-	
	030)	
71124.04	Occupational Dose Assessment 12/02/09 (09-030)	
71124.05	Radiation Monitoring Instrumentation 12/02/09 (09-030)	
71124.06	Radioactive Gaseous and Liquid Effluent Treatment 12/02/09 (09-	
74404.07	030)	
71124.07	Public Radiation Safety 12/02/09 (09-030)	
71124.08	Radioactive Solid Waste Processing and Radioactive Material	
74400	Handling, Storage, and Transportation 12/02/09 (09-030)	
71130	Security 02/24/10 (10-007)	
71130.01	Access Authorization 02/24/10 (10-007)	
71130.02	Access Control 02/24/10 (10-007)	
71130.03	Contingency Response - Force-On-Force Testing 02/05/09 09-005	
74420.04		
71130.04	Equipment Performance, Testing and Maintenance 02/24/10 (10-	
71120.05	007) Protective Strategy Evaluation 03/34/10 (10.007)	
71130.05 71130.06	Protective Strategy Evaluation 02/24/10 (10-007) Protection of Safeguards Information 01/07/10 (10-001)	
71130.00	• ,	
71130.07	Security Training 02/24/10 (10-007) Fitness for Duty Program 01/07/10 (10-001)	
71130.00	Reserved for Information Technology Security	
71130.10	Material Control & Accounting (MC&A) 12/10/08 (08-035)	
71130.11	Reserved for Physical Protection of Shipments of Irradiated Fuel	
71130.12	Reserved for Security Inspections Conducted by Resident	
7 1 130.13	Inspectors	
71130.14	Review of Power Reactor Target Sets 01/27/10 (10-003)	
71150.14	Discrepant or Unreported Performance Indicator Data	
7 1 100	01/04/07 (07-001)	
71151	Performance Indicator Verification 06/28/07 (07-021)	
71152	Identification and Resolution of Problems 02/26/10 (10-008)	
71153	Follow-up of Events and Notices of Enforcement Discretion	
	02/02/10 (10-004)	
71302	Preoperational Test Program Implementation Verification 10/01/83	
. 1002	(reactivated 08-032)	
71303	Part 52, Technical Specifications Review 10/20/08 (08-029)	
D-1- 00/00/44		

## PART GUIDANCE

71714	Cold Weather Preparations 09/17/01 (01-017)
71715	Sustained Control Room and Plant Observation 04/14/92
	(92-004)
71801	Decommissioning Performance and Status Review at
	Permanently Shutdown Reactors 08/11/97 (97-012)
71841	Human Performance 12/12/00 (00-027)

#### 7200 Startup Testing

	72300	Startup Test Procedure Review 01/20/84 (84-04)
	72301	Startup Test Results Evaluation 01/20/84 (84-04)
	72302	Startup Test Witnessing and Observation 01/20/84(84-04)
	72303	Startup Testing for ABWR: Test Procedure Review, Test
		Witnessing, and Test Results Evaluation 09/05/06 (06-021)
	72304	Startup Testing for AP 1000: Test Procedure Review, Test
		Witnessing, and Test Results Evaluation 09/05/06 (06-021)
	72400B	Overall Startup Test Program 07/01/80 (80-16)
	72401	Reserved for Part 52 Overall Setup Test Program
	72500B	Initial Fuel Loading Procedure 04/30/75 (75-16)
	72501	Reserved for Part 52 Initial Fuel Load Procedure Review
	72502B	Initial Criticality Procedure Review (BWR) 04/30/75 (75-16)
	72504B	Heat-up 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)
	72525	Reserved for Part 52 Initial Fuel Load Witnessing
	72526	BWR Initial Criticality Witnessing 01/20/84 (84-04)
	72532	Power Level Plateau Data Review (BWR) 01/20/84 (84-04)
	72564B	Pre-critical Test Procedure Review - Protective Trip
		Circuit or Rod Drop Measurement 07/01/80 (80-16)
	72566B	Pre-critical 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
_	D-4 00/00/4	4 TABLE OF CONT

#### **GUIDANCE**

	Coefficient and Boron Worth or Control Rod Worth and Pseudo Rod Ejection Worth 07/01/80 (80-16)
72576B	Power Ascension Test Procedure Review - Natural Circulation or Power Reactivity Coefficient Measurement 07/01/80 (80-16)
72578B	Power Ascension Test Procedure Review - Evaluation of Core Performance 07/01/80 (80-16)
72580B	Power Ascension Test Procedure Review - Turbine Trip or Generator Trip 07/01/80 (80-16)
72582B	Power Ascension Test Procedure Review - Loss of Offsite Power (Group A) 07/01/80 (80-16)
72583B	Power Ascension Test Procedure Review: Shutdown from Outside the Control Room (Group B) 07/01/80 (80-16)
72584B	Power Ascension Test Procedure Review - Evaluation of Flux Asymmetry or Pseudo Rod Ejection Test 04/30/75 (75-16)
72592	PWR Initial Criticality Witnessing 01/20/84 (84-04)
72596B	Pre-critical 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 Pl01/14/86 (86-03)

#### 7300 <u>In-service Inspection</u>

73052	In-service Inspection - Review of Procedures 01/14/86 (86-03)
73053	Pre-service Inspection – Observation of Work and Work Activities 01/01/79 (reactivated 07-034)
73054	Part 52, Pre-service and In-service Inspection - Review of Program
70004	07/01/08 (08-019)
73055	Pre-service Inspection Data Review and Evaluation 01/01/79
	(reactivated 07-034)
73753	In-service Inspection 06/24/98 (98-010)
73754	Part 52 - Preservice Inspection - Non-Destructive Examination
	10/27/10 (10-022)
73755	In-service Inspection - Data Review and Evaluation 10/27/10
	(10-022)
	01/14/86 (86-03)
73756	In-service Testing of Pumps and Valves 07/27/95 (95-009)
73757	Part 52 In-service Inspection - Data Review and Evaluation
	04/18/08 (08-012

#### 7400 Reserved

#### 7500 Reserved

#### 7600 Reserved

#### **PART**

#### **GUIDANCE**

#### 7700 Reserved

#### 7800 High Level Waste

78010 10 CFR Part 21 Program 09/11/08 (08-026)

#### 7900 Water Chemistry

79501	LWR Water Chemistry Control and Chemical Analysis – Audits
	02/24/89 (reactivated 08-032)
79502	Plant Systems Affecting Plant Water Chemistry 12/31/91
	(reactivated 08-032)
79503	Reserved for Part 52 LWR Water Chem. Control & Chem. Analysis
	(Pre-Op and Supp)
79504	Reserved for Part 52 Plant systems Affecting Plant Water Chem.
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)
80211	Reserved for Part 52 Environmental Protection - Initial & Periodic
	Inspection
80521	Radiological Environmental Monitoring (Preoperational and
	Supplemental) 01/01/84 (reactivated 08-032)
80522	Part 52, Radiological Environmental Monitoring Program (REMP)
	07/01/08 (08-019)
80721	Radiological Environmental Monitoring 09/17/01(01-017)

#### 8100 Physical Security

81000.01	Reserved for Access Authorization
81000.02	Reserved for Access Control
81000.03	Reserved for Performance Evaluation Program
81000.04	Reserved for Equipment Performance, Testing and Maintenance
81000.05	Reserved for Protective Strategy Evaluation
81000.07	Reserved for Security Training Program
81000.10	Reserved for Security Organization, Management Effectiveness,
	Program Reviews and Audits
81000.11	Reserved for Material Control and Accountability
81001.1	Independent Spent Fuel Storage Installation(s) at Operating Plants
	02/02/04 (04-003)
81018	Physical Security Plan and Implementing Procedures 05/24/07 (07-
	17)

Issue Date: 02/09/11 35 TABLE OF CONTENTS

## PART GUIDANCE

81019	Reserved for Part 52 Security Plan & Implementing Procedures
81020	Management Effectiveness - Security Program 06/13/07 (07-019)
81021	Reserved for Part 52 Management Effectiveness
81023	Reserved for Part 52 Security Organization
81022	Security Organization 06/13/07 (07-019)
81034	Security Program Audit 09/10/07 (07-027)
81035	Reserved for Part 52 Security Audit Program
81038	Records and Reports 09/10/07 (07-027)
81039	Reserved for Part 52 Records & Reports
81042	Testing and Maintenance 04/12/07 (07-013)
81043	Reserved for Part 52 Testing & Maintenance
81046	Locks, Keys, and Combinations 09/10/07 (07-027)
81047	Reserved for Part 52 Locks, Keys & Combinations
81052	Physical Barriers - Protected Areas 09/10/07 (07-027)
81053	Reserved for Part 52 Physical Barriers - Protected Areas
81054	Physical Barriers - Vital Areas, Material Access Areas, and
	Controlled Access Areas 09/10/07 (07-027)
81055	Reserved for Part 52 Physical Barriers - Vital Areas, Material
	Access Areas & Controlled Access Areas
81058	Security System Power Supply 09/10/07 (07-027)
81059	Reserved for Part 52 Security System Power Supply
81062	Lighting 09/10/07 (07-027)
81063	Reserved for Part 52 Lighting
81064	Compensatory Measures 09/10/07 (07-027)
81065	Reserved for Part 52 Compensatory Measures
81066	Assessment Aids 09/10/07 (07-027)
81067	Reserved for Part 52 Assessment Aides
81070	Access Control - Personnel 12/22/08 (08-037)
81071	Reserved for Part 52 Access Control - Personnel
81072	Access Control (Power Reactor) - Packages 05/09/84 (84-15)
81073	Access Control (Fuel Facility) - Packages, Material, and
	Strategic Special Nuclear Material (SSNM) 08/05/09 (09-019)
81074	Access Control - Vehicles 12/22/08 (08-037)
81075	Reserved for Part 52 Access Control - (Power Reactors) –
0.070	Packages
81076	Reserved for Part 52 Access Control - Vehicles
81078	Detection Aids - Protected Areas 11/23/09 (09-028)
81079	Reserved for Part 52 Detection Aids - Protected Areas
81080	Detection Aids – MAA and CAA 12/22/08 (08-037)
81081	Reserved for Part 52 Detection Aids - VA, MAA, & CAA
81084	Alarm Stations 09/10/07 (07-027)
81085	Reserved for Part 52 Alarm Stations
81088	Communications 09/10/07 (07-027)
81089	Reserved for Part 52 Communications
81120	Inspection Requirements and Guidance for Additional Security
	Measures for the Physical Protection in Transit for Radioactive
	Material Quantities of Concern 04/01/10 (10-010)
04040	(Note this IP contains safeguards material)
81310	Physical Protection of Shipments of Irradiated Fuel

# <u>PART</u>

# **GUIDANCE**

81335 81340	12/22/08 (08-037) Physical Protection of Shipments of Special Nuclear Material of Moderate Strategic Significance (SNM-MSS) 12/02/09 (09-029) Physical Protection of Shipments of Special Nuclear Material of
81360	Low Strategic Significance (SNM-LSS) 11/23/09 (09-028) General Requirements for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 12/02/09 (09-029)
81365	Records, Reports, and Planning for Physical Protection of Formula Quantities of Special Nuclear Material in Transit 11/23/09 (09-028)
81370	Specific Requirements for Physical Protection of Formula Quantities of Special Nuclear Materials in Transit 12/22/08 (08-037)
81402	Reports of Safeguards Events 11/23/09 (09-028)
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 11/23/09 (09-028)
81431	Fixed Site Physical Protection of Special Nuclear
	Material of Low Strategic Significance 12/02/09 (09-029)
81501	Personnel Training and Qualification - General Requirements
	12/02/09 (09-029)
81502	Fitness for Duty Program 12/22/08 (08-037)
81503	Reserved for Part 52 Personnel Training and Qualification - Gen.
	Requirements
81504	Fitness for Duty Program for Construction 10/15/09 (09-024)
81601	Safeguards Contingency Plan - Implementation Review
	12/22/08 (08-037)
81602	Reserved for Part 52 Safeguards Contingency Plan -
	Implementation Review
81700	Physical Security Program for Power Reactors
	07/01/97 (97-010)
81810	Protection of Safeguards Information 09/10/07 (07-027)
81811	Reserved for Part 52 Physical Protection Safeguards Information
81815	Authorizations for Access to National Security Information
04000	(NSI) and Restricted Data (RD) 12/22/08 (08-037)
81820	Physical Protection Facility Approval and Safeguarding
	of National Security Information (NSI) and Restricted
	Data (RD) 12/22/08 (08-037)

# 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)

# PART GUIDANCE

8300	Radiation Pro	otection
	83100	Occupational Exposure During SAFSTOR and DECON
		12/30/91 (91-022)
	83311	Reserved for Part 52, Radiation Protection During Construction
	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)
	83522	Radiation Protection, Plant Chemistry, Radwaste, and
		Environmental: Organization and Management Controls 12/31/91
	00500	(reactivated 08-032)
	83523	Radiation Protection, Plant Chemistry, Radwaste, Transportation
		and Environmental: Training and Qualifications 01/01/84
	83524	(reactivated 08-032) External Occupational Exposure Control and Personal Dosimetry
	03324	(Preoperational and Supplemental) 01/01/84 (reactivated 08-032)
	83525	Internal Exposure Control and Assessment (Preoperational and
	03323	Supplemental) 01/01/84 (reactivated 08-032)
	83526	Control Of Radioactive Materials and Contamination, Surveys, and
	00020	Monitoring (Preoperational And Supplemental) 01/01/84
		(reactivated 08-032)
	83527	Facilities and Equipment (Preoperational and Supplemental)
		01/01/84 (reactivated 08-032)
	83529	Reserved for Part 52 Radiation Protection – Startup
	83531	Reserved for Part 52 Radiation Protection, Plant Chemistry,
		Radwaste, and Environmental
	83532	Reserved for Part 52 Radiation Protection, Plant Chemistry, and
		Radwaste Training
	83533	Part 52 External Occupational Exposure Control and Personal
		Dosimetry 10/27/10 (10-022)
	83534	Part 52, Internal Exposure Control and Assessment 10/27/10 (10-
		022)
	83535	Part 52 Control of Radioactive Materials and Contamination,
	00500	Surveys, and Monitoring 10/27/10 (10-022)
	83536	Part 52 Facilities and Equipment 10/27/10 (10-022)
	83537	Part 52 Maintaining Occupational Exposures ALARA 10/27/10
	00700	(10-022)
	83722	Radiation Protection, Plant Chemistry, and Radwaste:
		Organization and Management Controls (Minimum/Basic)
	92722	09/17/01 (01-017) Conoral Employee Padiation Safety Plant Chemistry
	83723	General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03(03-041)
	83724	External Occupational Exposure Control and Personal
	00124	Dosimetry 04/17/00 (00-006)
	D-1- 00/00/4	4 TABLE OF CONTENTO

# <u>PART</u>

# **GUIDANCE**

83725	Internal Exposure Control and Assessment 04/17/00 (00-006)
83726	Control of Radioactive Materials and Contamination,
	Surveys and Monitoring 09/17/01 (01-017)
83727	Facilities and Equipment (Basic) 09/17/01 (01-017)
83728	Maintaining Occupational Exposures ALARA 04/17/00
	(00-006)
83729	Occupational Exposure during Extended Outages 12/31/91
	(91-021)
83746	Offsite Dose Calculation Manual (ODCM) 07/29/08 (08-021)
83750	Occupational Radiation Exposure 06/06/02 (02-023)
83801	Inspection of Remedial and Final Surveys at Permanently
	Shutdown Reactors 09/05/06 (06-020)
83822	Radiation Protection 09/07/00 (00-016)
83890	Closeout Inspection and Survey 05/01/03 (03-013)

### 8400 Radioactive Waste Management

84100	Special Nuclear Material Inspections At Near Surface Low-Level Waste Disposal Facilities In Agreement States 11/27/01 (01-028)
84101	Radioactive Waste Management 12/30/91 (91-022)
84521	Radwaste - Startup 01/01/84 (84-01)
84522	Solid Wastes (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)
84523	Liquids and Liquid Wastes (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)
84524	Gaseous Waste System (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)
84525	Quality Assurance and Confirmatory Measurements for In-Plant Radiochemical Analysis (Preoperational and Supplemental) 5/23/85 (reactivated 08-032)
84526	Reserved for Part 52 Radwaste – Startup
84527	Part 52, Solid Waste Management System 07/01/08 (08-019)
84528	Reserved for Part 52 Liquid Waste Management System
84529	Reserved for Part 52, Gaseous Waste Management System (Preoperational and Supplemental)
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 12/22/08 (08-037)
84900	Low-Level Radioactive Waste Storage 12/22/08 (08-037) (Preoperational and Supplemental)

### 8500 <u>Material Control and Accountability</u>

85102	Material Control and Accounting - Reactors 03/29/85 (85-10)
85103	Reserved for Part 52 Material Control and Accounting - Reactor
85200	MC&A for Licensees Possessing Less Than or Equal to

Issue Date: 02/09/11 39 TABLE OF CONTENTS

### **GUIDANCE**

	One Effective Kilogram of SNM 04/10/85 (85-15)
85203	Management Structure and Controls 09/09/10 (10-019)
85205	Facility Operations and Internal Controls 09/09/10 (10-019)
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)
85303	Material Control and Accounting Management Structure and
	Personnel Training and Qualification 09/09/10 (10-019)
85305	Item Monitoring 09/09/10 (10-019)
85307	Process Monitoring 12/21/2010 (10-027)
85309	Measurement Systems and Control 10/20/10 (10-021)
85311	Physical Inventory Program 11/15/10 (10-023)
85313	Alarm Resolution Program 11/15/10 (10-023)
85315	Internal Control 12/21/2010 (10-027)
85401	Management Structure 09/09/10 (10-019)
85402	Measurement Program 10/20/10 (10-021)
85403	Measurement Control Program 10/20/10 (10-021)
85404	Physical Inventory Program for Low Enriched Uranium Fuel
33.3.	Facilities 11/15/10 (10-023)
85405	Item Control 09/09/10 (10-019)
85406	Resolution Program for Low Enriched Uranium Fuel Facilities
	11/15/10 (10-023)
85407	Assessment Program 11/29/10 (10-024)
85408	Recordkeeping 11/29/10 (10-024)
85420	Inspection of IAEA Safeguards for Inspectors at Power
	Reactors 06/22/88 (88-07)
85501	Physical Inventory Program for Uranium Enrichment Facilities
	11/15/10 (10-023)
85502	Detection Program for Uranium Enrichment Facilities 12/21/2010
	(10-027)
85503	Resolution Program for Uranium Enrichment Facilities 11/15/10(10-
	023)

### 8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

86001	Design, Fabrication, Testing, and Maintenance of
	Transportation Packagings 01/16/08 (08-003)
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 10/30/08 (08-030)
86750	Solid Radioactive Waste Management and Transportation
	of Radioactive Materials 03/15/94 (94-006)

8700 Materials Safety Inspection

# PART GUIDANCE

87102	Maintaining Effluents from Materials Facilities As Low As Is Reasonably Achievable (ALRA) 04/04/00 (00-005)
87103	Inspection of Material Licensees Involved in an Incident or Bankruptcy Filing 11/03/00 (00-023)
87104	Decommissioning Inspection Procedure for Materials Licensees 07/29/02 (02-029)
87121	Industrial Radiography Programs 08/22/05 (05-023)
87122	Irradiator Programs 12/31/02 (02-047)
87123	Well Logging Programs 11/25/03 (03-037)
87124	Fixed and Portable Gauge Programs 11/25/03 (03-037)
87125	Materials Processor/Manufacturer Programs 09/28/05 (05-027)
87126	Industrial/Academic/Research Programs 09/28/05 (05-027)
87127	Radiopharmacy Programs 07/01/08 (08-018)
87129	Master Materials Program 09/15/03 (03-034)
87130	Nuclear Medicine Programs, Written Directive Not Required 10/24/02 (02-041)
87131	Nuclear Medicine Programs, Written Directive Required 10/24/02 (02-041)
87132	Brachytherapy Programs 12/06/05 (05-033)
87133	Medical Gamma Sterotactic Radiosurgery and Teletherapy Programs 10/24/02 (02-041)
87134	Medical Broad-Scope Programs 09/28/05 (05-027)
87135	Panoramic and Underwater Irradiator Security Program 10/30/08 (08-030)
87136	Manufacturing and Distribution (M&D) Security Program) 10/30/08 (08-030)
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 10/30/08 (08-030)
88003	Reactive Inspection for Events at Fuel Cycle Facilities 08/10/98 (98-012)
88004	Reserved for Adverse Weather Protection
88005	Management Organization and Controls 09/05/06 (06-020)
88010	Operator Training/Retraining 09/05/06 (06-020)
88015	Nuclear Criticality Safety Program 09/05/06 (06-020)
88016	Nuclear Criticality Safety Evaluations and Analyses 07/28/06 (06-019)
88017	Criticality Alarm Systems 07/28/06 (06-019)
88020	Operational Safety 09/05/06 (06-020)
88025	Maintenance and Surveillance Testing 09/25/06 (06-025)
88030	Radiation Protection 07/28/06 (06-019)
88035	Radioactive Waste Management 09/25/06 (06-025)

# **GUIDANCE**

88045	Effluent Control and Environmental Protection 09/05/06 (06-020)
88050	Emergency Preparedness 09/05/06 (06-020)
88051	Evaluation of Exercises and Drills 07/28/06 (06-019)
88054	Fire Protection (Triennial) 09/11/08 08-026
88055	Fire Protection (Annual) 08/19/08 (08-024)
88070	Permanent Plant modification 09/05/06 (06-020)
	· · · · · · · · · · · · · · · · · · ·
88071	Configuration Management Programmatic Review 07/28/06
00075	(06-019)
88075	Event Follow-up 07/28/06 (06-019)
88100	Plant Operations 12/30/96 (96-026)
88101	Configuration Control 12/30/96 (96-026)
88102	Surveillance Observations 12/30/96 (96-026)
88103	Maintenance Observations 12/30/96 (96-026)
88104	Decommissioning Inspection Procedure for Fuel Cycle
	Facilities 07/03/02 (02-026)
88105	Management Organization and Controls 12/30/96 (96-026)
88106	Quality Assurance: Program Development and Implementation
	(Pre-licensing and Construction) 02/07/07 (07-006)
88107	Quality Assurance: Design and Documentation Control (Pre-
00107	licensing and Construction) 05/18/05 (05-013)
88108	Quality Assurance: Control of Materials, Equipment, and Services
00100	(Pre-licensing and Construction) 02/07/07 (07-006)
00100	, , ,
88109	Quality Assurance: Inspection, Test Control, and Control of
	Measuring and Test Equipment (Pre-licensing and Construction)
00440	06/20/07 (07-020)
88110	Quality Assurance: Problem Identification, Resolution and
	Corrective Action 05/18/05 (05-013)
88111	10 CFR, Part 21, Inspection-Facility Construction 02/07/07 (07-006)
88112	Reserved for Software Validation
88113	Control of the Electronic Management of Data 02/07/07 (07-006)
88114	Quality Affecting Item Procurement (10 CFR Part 21) and
	Commercial Grade Item Dedication Process [Reactive]
	10/25/06 (06-030)
88115	Supplier/Vendor Inspection (Construction Phase)
	10/25/06 (06-030)
88116	Inspection of Safety Function Interfaces for the Mixed Oxide Fuel
	Fabrication Facility (Pre-licensing and Construction) 02/07/07 (07-
	006)
88130	Resident Inspection Program for On-Site Construction Activities at
00130	the Mixed Oxide Fuel Fabrication Facility 10/25/06 (06-030)
88131	Geotechnical/Foundation Activities 10/25/06 (06-030)
	,
88132	Structural Concrete Activities 10/25/06 (06-030)
88133	Structural Steel and Supports Activities 7/25/07 (07-023)
88134	Quality Assurance: Piping Relied on for Safety) 05/18/05 (05-013)
88135	Resident Inspection Program for Category I Fuel Cycle Facilities
	0925/06 (06-025)
88136	Mechanical Components 7/25/07 (07-023)
88137	Electric Cable 04/01/10 (10-010)
88138	Electrical Components and Systems 08/08/07 (07-024)

### **PART**

### **GUIDANCE**

88130

00139	verillation and Commented Systems 00/00/07 (07-024)
88140	Instrumentation and Controls Systems 04/01/10 (10-010)
88141	Fire Prevention and Protection 08/08/07 (07-024)
88142	Underground Fire Water Loop and Equipment Installation 08/08/07 (07-024)
88143	Pipe Supports and Restraints 7/25/07 (07-023)
88150	Reserved for Training and Qualification of Plant Personnel
88151	Reserved for Facility Changes and Change Process (10 CFR70.72)
88152	Reserved for Physical Protection Equipment and Barriers
88153	Reserved for Material Control and Accounting
88154	Reserved for Fire Safety and Protection Systems
88155	Reserved for Functional Verifications of IROFS
88156	Reserved for Integrated Safety Analysis Implementation
88157	Reserved for Waste Management Equipment and Systems
88158	Reserved for Environmental Protection - Initial and Periodic
	Inspections
88159	Reserved for Process Enclosures and Vessels
88160	Reserved for Utilities and Bulk Chemicals

Ventilation and Confinement Systems 08/08/07 (07-024)

### 8900 Fuel Facility and Materials Special Program

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

### 9000 Reportable Matters and Report Reviews

90001	Construction Regulatory Response Column Inspections 10/27/10 (10-022)
90002	Reserved for Expanded Program Review Inspection
90003	Reserved for Unacceptable Performance Inspection
90501B	Reportable Matters - Startup Test Program 04/30/75 (75-16)
90502	Reserved for Part 52 Reportable Matters - Test Program
90700	Feedback of Operational Experience Information at Operating
	Power Reactors 03/23/05 (05-008)
90712	In-office Review of Written Reports of Non-routine Events at Power
	Reactor Facilities 12/31/98 (98-020)
90713	In Office Review of Periodic and Special Reports 09/17/01 (01-017)
90714	Non-routine Reporting Program 09/17/01 (01-017)

### 9100 Title 10 Requirements

### 9200 Planned Non-Routine Activities

92050	Review of Quality	/ Assurance f	for Extended (	Construction
02000	I TO VIC W OI QUAILLY	, , , , , , , , , , , , , , , , , , ,	OI ENLOTIAGE	2011011 4011011

Delay 04/04/00 (00-005)

92700 Onsite Follow-up of Written Reports of Non-routine Events

Issue Date: 02/09/11 43 TABLE OF CONTENTS

# PART GUIDANCE

92701 92702	at Power Reactor Facilities 12/31/98 (98-020) Follow-up 03/13/07 (07-010) Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders 01/10/08 (08-001)
92703	Follow-up of Confirmatory Action Letters 05/13/09 (09-012)
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)
92714	Reserved for Part 52 Follow-up
92717	IE Bulletins for Information and IE Information Notice Followup 09/25/85 (reactivated 10-020)
92720	Corrective Action 09/28/98 (reactivated 07-034)
92721	Reserved for Part 52 Follow-up on Corrective Actions for Violations and Deviations
92722	Follow up Inspection for Any Severity Level I or II Traditional Enforcement Violation or for Two or More Severity Level III Traditional Enforcement Violations in a 12-Month Period 08/11/09 (09-020)
92723	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area is a 12-Month Period 08/11/09 (09-020)
92901	Follow-up - Plant Operations 09/17/01 (01-017)
92902	Follow-up - Maintenance 09/17/01 (01-017)
92903	Follow-up - Engineering 09/17/01 (01-017)
92904	Follow-up - Plant Support 09/17/01 (01-017)

# 9300 Non-Routine Activities

93001	OHSA Interface Activities 09/08/09 (09-021)
93002	Managing Fatigue 11/09/09 (09-026)
93100	Reserved for Safety Conscious Work Environment Issue Follow-up
93702	Prompt Onsite Response to Events at Operating Power
	Reactors 09/17/01 (01-017)
93800	Augmented Inspection Team 03/23/09 (09-010)
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
	·

Issue Date: 02/09/11 **TABLE OF CONTENTS** 44

PAF	2

### **GUIDANCE**

93807	09/29/98 (98-015) Systems Based Instrumentation and Control Inspection 01/29/93 (93-001)
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 03/23/09 (09-010)
93813	Reserved for Part 52 Operational Readiness Assessment Team Inspection
93814	Independent Design Verification Program 11/15/10 (10-023)

### 9400 Technical Activities of an Administrative Nature

94300	Status of Plant Readiness for an Operating Licensee 02/14/86
	(Reactivated 07-034)
94301	Reserved for Part 52 Status of 10 CFR 52 Plant Readiness for Fuel Load

### 9500 Strategic Determination Actions

95001	Supplemental Inspection for One or Two White Inputs in a Strategic
	Performance Area 02/09/11 (11-001)
95002	Supplemental Inspection for One Degraded Cornerstone or Any
	Three White Inputs in a Strategic Performance Area 02/09/11 (11-
	001)
95003	Supplemental Inspection for Repetitive Degraded Cornerstones,
	Multiple Degraded Cornerstones, Multiple Yellow Inputs or
	One Red Input 02/09/11 (11-001)
95003.01	Emergency Preparedness 01/15/09 (09-002)
95003.02	Guidance for Conducting an Independent NRC Safety Culture
	Assessment) 01/15/09 (09-002)
	, ,

### 9600 Materials Safety and Security

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

9700 Reserved

9800 Reserved

9900 Guidance<sup>2</sup>

Issue Date: 02/09/11 45 TABLE OF CONTENTS

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

# <u>PART</u>

### **GUIDANCE**

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

### **Technical Guidance**

ASME Section III	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III 06/16/89 (89-011)
ASME Section III	American Society of Mechanical Engineers ASME Boiler and & XI Pressure Vessel Code, Section III & XI 11/12/96 (96-022)
ASME Section XI	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section XI 12/08/86 (86-54)
ASME Section XI	American Society of Mechanical Engineers ASME, Section XI 05/12/86 (86-26)
Oper Det Process	Operability Determinations & Functionality Assessments For Resolution of Degraded or Nonconforming Conditions Adverse to Quality or Safety 09/26/05 (05-026)
STS Sec 1.0	Operability 05/12/86 (86-26)
STS Sec 1.0	Definitions 12/08/86 (86-54)
STS Sec 3.0	Acceptable Measurement Tolerances for Technical Specification Limits 10/01/78 (78-35)
STS Sec 3/4.6.4	Containment and Drywell Isolation Valves 06/09/88 (88-06)
STS Sec 3.7.5	Ultimate Heat Sink 11/25/88 (88-17)
STS Sec 3/4.8.1	TDI Diesel Generator Air Roll Tests 06/09/88 (88-06)
STS Sec 4.2.8.X.X	Surveillance Requirements - 125-Volt Battery Bank 10/01/79 (79-22)
STS Sec 4.5.1	Standard Technical Specifications (BWR) 05/12/86 (86-26)
STS Sec 4.8.1.1.2	Surveillance Testing of Diesel Generator Lockout Feature 05/12/86 (86-26)
STS	Surveillance Sections - Locked or Otherwise Secured Components 10/01/77 (77-25)
STS Interp	Licensee Technical Specification Interpretations 02/03/97 (97-001)

### **Maintenance**

### **PART**

### **GUIDANCE**

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]

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

### **Operations**

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

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

Operability Determinations & Functionality Assessments for Resolution of Degraded or Nonconforming Conditions Adverse to Quality or Safety 04/16/08 (08-016) [TG STSODP]

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

**PART** 

### **GUIDANCE**

### **PART**

### **10 CFR GUIDANCE**

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

10CFR71 and

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

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

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

50.59 10 CFR 50.59, Changes, Tests, and Experiments

03/13/01 (01-008) [50 59.CFR]

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

Part 50 Appendix J, Containment Integrated Leak Rate Testing

12/08/86 (86-54)

70.51 Material Balance, Inventory, and Records Requirements

12/19/74 (74-11)

70.52 Report of Accidental Criticality or Loss of Special Nuclear

Material 11/15/74 (74-010)

#### Interpretations

**END**