# **NRC INSPECTION MANUAL**

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	71114.02	Alert and Notification System Testing 04/03/00 (00-003)
	71114.03	Emergency Response Organization Augmentation Testing
		04/03/00 (00-003)

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71114.05	Correction of emergency Preparedness Weaknesses and Deficiencies 04/03/00 (00-003)
71114.06	Drill Evaluation 04/03/00 (00-003)
71121	Occupational Radiation Safety 04/03/00 (00-003)
71121.01	Access Control to Radiologically Significant Areas ( 04/03/00 (00-003)
71121.02	ALARA Planning and Controls 04/03/00 (00-003)
71121.03	Radiation Monitoring Instrumentation 04/03/00 (00-003)
71122	Public Radiation Safety 04/03/00 (00-003)
71122.01	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems 04/03/00 (00-003)
71122.02	Radioactive Material Processing and Transportation 04/03/00 (00-003)
71122.03	Radiological Environmental Monitoring Program (REMP) 04/03/00 (00-003)
71130	Physical Protection 04/03/00 (00-003)
71130.01	Access Authorization (AA) Program (Behavior Observation Only) 09/12/00 (00-018)
71130.02	Access Control (Search of Personnel, Packages, and Vehicles Identification and Authorization 09/12/00 (00-018)
71130.03	Response to Contingency Events (Protective Strategy and Implementation of Protective Strategy) 09/12/00 (00-018)
71130.04	Security Plan Changes 09/12/00 (00-018)
71150	Discrepant or Unreported Performance Indicator Data 03/06/01 (01-006)
71151	Performance Indicator Verification 03/06/01 (01-006)
71152	Identification and Resolution of Problems 03/06/01 (01-006)
71153	Event Followup 03/06/01 (01-006)
71707	Plant Operations 12/31/98 (98-020)
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71750	Plant Support Activities 06/24/98 (98-010)
71801	Decommissioning Performance and Status Review at
	Permanently Shutdown Reactors 08/11/97 (97-012)
71841	Human Performance 12/12/00 (00-027)
71846B	Review of Conduct of Operations 10/01/76 (76-24)

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72301	Startup Test Results Evaluation 01/20/84 (84-04)
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72400B	Overall Startup Test Program 07/01/80 (80-16)
72500B	Initial Fuel Loading Procedure 04/30/75 (75-16)
72502B 72504B	Initial Criticality Procedure Review (BWR) 04/30/75 (75-16) Heatup Phase Procedure Review 04/30/75 (75-16)

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72509B	(80-16) 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)
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72564B	Precritical Test Procedure Review - Protective Trip
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72566B	Precritical Test Procedure Review - RES Lead Test or
	or Pressurizer Effectiveness 07/01/80 (80-16)
72570B	Initial Criticality Procedure Review (PWR) 07/01/80 (80-16)
72572B	Low Power Test Procedures Review Moderator Temperature
02	Coefficient and Boron Worth or Control Rod Worth and
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72576B	Power Ascension Test Procedure Review - Natural
0. 02	Circulation or Power Reactivity Coefficient Measurement
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72578B	Power Ascension Test Procedure Review - Evaluation of
120108	Core Performance 07/01/80 (80-16)
72580B	Power Ascension Test Procedure Review - Turbine Trip
. 20002	or Generator Trip 07/01/80 (80-16)
72582B	Power Ascension Test Procedure Review - Loss of Offsite
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72583B	Power Ascension Test Procedure Review: Shutdown from Outside the Control Room (Group B) 07/01/80 (80-16)
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72596B	Precritical Data Review 07/01/80 (80-16)
72600B	Power Level Plateau Data Review (25% PWR) 07/01/80 (80-16)
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72616B	Power Level Plateau Data Review (75% PWR) 07/01/80 (80-16)
72624B	Power Level Plateau Data Review (100% PWR) 07/01/80 (80-16)
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73753	Inservice Inspection 06/24/98 (98-010)
73755	Inservice Inspection - Data Review and Evaluation 01/14/86 (86-03)
73756	Inservice Testing of Pumps and Valves 07/27/95 (95-009)

- 7400 <u>Reserved</u>
- 7500 <u>Reserved</u>
- 7600 <u>Reserved</u>
- 7700 Reserved
- 7800 High Level Waste
- 7900 Water Chemistry
  - 79702 Control and monitoring of Radiological Source Term 04/17/00 (00-006)
- 8000 Environmental Protection
  - 80721 Radiological Environmental Monitoring 09/17/01(01-017)

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81001 81018	Independent Spent Fuel Storage Installations 09/17/01 (01-017) Security Plan and Implementing Procedures 05/09/84 (84-15)
81020	Management Effectiveness - Security Program 05/09/84 (84-15)
81022	Security Organization 05/09/84 (84-15)
81034	Security Program Audit 05/09/84 (84-15)
81038	Records and Reports 05/09/84 (84-15)
81042	Testing and Maintenance 05/09/84 (84-15)
81046	Locks, Keys, and Combinations 05/09/84 (84-15)
81052	Physical Barriers - Protected Areas 05/09/84 (84-15)
81054	Physical Barriers - Vital Areas, Material Access Areas, and Controlled Access Areas 05/09/84 (84-15)
81058	Security System Power Supply 05/09/84 (84-15)
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	81066	Assessment Áids 05/09/84 (84-15)
	81070	Access Control - Personnel 05/09/84 (84-15)
	81072	Access Control (Power Reactor) - Packages 05/09/84 (84-15)
	81073	Access Control (Fuel Facility) - Packages, Material,
	01070	and SSNM 05/09/84 (84-15)
	81074	Access Control - Vehicles 05/09/84 (84-15)
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	81080	Detection Aids - VA, MAA, and CAA 05/09/84 (84-15)
	81084	Alarm Stations 05/09/84 (84-15)
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	81110	Operational Safeguards Response Evaluation (OSRE) 09/08/00 (00-017)
	81310	Physical Protection of Shipments of Irradiated Fuel
	01310	02/20/86 (86-09)
	81335	Physical Protection of Shipments of SNM of Moderate
		Strategic Significance (MSNM) 02/20/86 (86-09)
	81340	Physical Protection of Shipments of SNM of Low Strategic
	01010	Significance (LSNM) 02/20/86 (86-09)
	81360	General Requirements for Physical Protection of Formula
		Quantities of Special Nuclear Material in Transit
		08/20/86 (86-40)
	81365	Records, Reports, and Planning for Physical Protection
		of Formula Quantities of Special Nuclear Material in
		Transit 08/20/86 (86-40)
	81370	Specific Requirements for Physical Protection of
		Formula Quantities of Special Nuclear Materials in
		Transit 08/20/86 (86-40)
	81401	Plans, Procedures, and Reviews 09/17/01 (01-017
	81402	Reports of Safeguards Events 06/13/85 (85-23)
	81403	Receipt of New Fuel at Reactor Facilities 09/17/01 (01-017
	81411	Physical Protection for Reactors with Formula
	01111	Quantities of Special Nuclear Material 11/04/85 (85-34)
	81421	Fixed Site Physical Protection of Special Nuclear Material
	01121	of Moderate Strategic Significance 06/13/85 (85-23)
	81431	Fixed Site Physical Protection of Special Nuclear
	01101	Material of Low Strategic Significance 09/17/01 (01-017)
	81501	Personnel Training and Qualification - General Requirements
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	81502	Fitness For Duty Program 05/31/91 (91-008)
	81601	Safeguards Contingency Plan - Implementation Review
	01001	05/09/84 (84-15)
	81700	Physical Security Program for Power Reactors
	01700	07/01/97 (97-010)
	81810	Protection of Safeguards Information 02/09/87 (87-03)
	81815	Authorizations for Access to National Security Information
	01015	(NSI) and Restricted Data (RD) 04/30/97 (97-005)
	81820	Physical Protection Facility Approval and Safeguarding
	01020	of National Security Information (NSI) and Destricted
		of National Security Information (NSI) and Restricted
	81910	Data (RD) 04/30/97 (97-005) Alarm Stations 02/19/91 (91-003)
	81911	Assessment 02/19/91 (91-003)
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- 81913 Communications 02/19/91 (91-003)
- Duress Alarms 02/19/91 (91-003) 81914
- 81915 **EECP Machine Performance - Explosive Detectors** 02/19/91 (91-003)
- EECP Machine Performance Metal Detectors 81916 02/19/91 (91-003)
- 81917 EECP Machine Performance - X-ray 02/19/91 (91-003)
- 81918 Emergency Power Supply 02/19/91 (91-003)
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- 81928 Protected Area Housekeeping 02/19/91 (91-003)
- 81929 Strategic Special Nuclear Material Exit Searches 02/19/91 (91-003)
- Tactical Response Team Exercises 02/19/91 (91-003) Vehicle Barriers 02/19/91 (91-003) 81930
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- 81932 Vehicle Escorts 02/19/91 (91-003)
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- 81935 Weapons Qualification 02/19/91 (91-003)

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82001 82301	Evaluation of Emergency Preparedness 05/22/00 (00-010) Evaluation of Exercises for Power Reactors 12/31/96 (96-024)
82302	Review of Exercise Objectives and Scenarios for Power Reactors 06/24/98 (98-010)
82701	Operational Status of the Emergency Preparedness Program 12/31/96 (96-024)
82745	Research Reactor Emergency Plan 08/07/92 (92-009)

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83100	Occupational Exposure During SAFSTOR and DECON 12/30/91 (91-022)
83501	Significant Uncontrolled Radiation Exposures 04/17/00 (00-006)
83502.01	Radioactive Gaseous and Liquid Treatment and Monitoring Systems 04/17/00 (00-006)
83502.02	Radioactive Material Process and Transportation 04/17/00 (00-006)
83502.03	Radiological Environmental Monitoring Program and Radioactive Material Control Program 04/17/00 (00-006)

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83521	Radiation Protection - Startup 01/01/84 (84-01)
83722	Radiation Protection, Plant Chemistry, and Radwaste: Organization and Management Controls (Minimum/Basic) 09/17/01 (01-017)
83723	General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 04/17/00 (00-006)
83724	External Occupational Exposure Control and Personal Dosimetry 04/17/00 (00-006)
83725	Internal Exposure Control and Assessment 04/17/00 (00-006)
83726	Control of Radioactive Materials and Contamination,
00720	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)
83743	Class I Non-Power Reactors Radiation Protection 10/03/94 (94-017)
83750	Occupational Radiation Exposure 03/15/94 (94-006)
83801	Inspection of Final Surveys at Permanently Shutdown Reactors 08/11/97 (97-012)
83822	Radiation Protection 09/07/00 (00-016)
83890	Closeout Inspection and Survey 03/07/94 (94-004)
83895	Radiation Protection - Followup on Expired Licenses
00000	11/08/83 (83-13)
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## 8400 Radioactive Waste Management

84100	Special Nuclear Material Inspections At Near Surface Low-Level Waste Disposal Facilities In Agreement States 11/27/01 (01-028)
84101	Radioactive Waste Management 12/30/91 (91-022)
84521	Radwaste - Startup 01/01/84 (84-01)
84750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring 03/15/94 (94-006)
84850	Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR 20 and 10 CFR 61 09/17/01 (01-017)
84900	Low-Level Radioactive Waste Storage 10/20/00 (00-022)

8500 Material Control and Accountability

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

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85205	Facility Operations and Internal Controls 04/10/85 (85-15)		
85207	Measurement Systems 01/17/86 (86-04)		
85209	Measurement Control and Statistics 04/10/85 (85-15)		
85211	Physical Inventory 01/17/86 (86-04)		
85215	Records and Reports 01/17/86 (86-04)		
85301	MC&A for Imports and Exports 07/18/84 (84-22)		
85303	MC&A Management Structure and Personnel Training and Qualification 03/18/91 (91-005)		
85305	Item Monitoring 03/18/91 (91-005)		
85307	Process Monitoring 03/18/91 (91-005)		
85309	Measurement Systems and Control 03/18/91 (91-005)		
85311	Physical Inventory 03/18/91 (91-005)		
85313	Alarm Resolution 03/18/91 (91-005)		
85315	Accounting and Internal Control 03/18/91 (91-005)		
85401	Management Structure 07/22/99 (99-011)		
85402	Measurement Control 07/22/99 (99-011)		
85403	Measurement Control Program 07/22/99 (99-011)		
85404	Physical Inventory 10/23/96 (96-021)		
85405 85406	Item Control Program 07/22/99 (99-011)		
85407	Resolution Program 10/23/96 (96-021) Assessment Program 07/22/99 (99-011)		
85408	Recordkeeping 07/22/99 (99-011)		
85420	Inspection of IAEA Safeguards for Inspectors at Power		
00420	Reactors 06/22/88 (88-07)		
85425	Implementation of US/IAEA Safeguards Agreement at Fuel Facilities 06/22/88 (88-07)		
85501	Inventory Program 07/22/99 (99-011)		
85502	Detection Program 07/22/99 (99-011)		
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8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

86001	Design, Fabrication, Testing, and Maintenance of Transportation Packagings 10/23/96 (96-021)
86700	Spent Fuel Pool Activities 09/17/01 (01-017)
86721	Transportation (Basic) 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 09/17/01 (01-017)
86750	Solid Radioactive Waste Management and Transportation of Radioactive Materials 03/15/94 (94-006)

8700 Materials Safety Inspection

87102	Maintaining Effluents From Materials Facilities As Low As Is	
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87103	Inspection of Material Licensees Involved in an Incident or	
	Bankruptcy Filing 11/03/00 (00-023)	

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87104	Decommissioning Inspection Procedure for Materials Licensees 06/04/97 (97-007)		
87110	Industrial/Academic/Research Programs 04/05/99 (99-005)		
87110 AP A	Industrial/Academic/Research Inspection Record 06/18/99 (99-009)		
87110 Ap B	Industrial/Academic/Research Inspection References 04/05/99 (99-005)		
87111	Materials Processor/Manufacturer Programs 06/11/98 (98-008)		
87111 Ap A	Materials Processor/Manufacturer Inspection Record 06/18/99 (99-009)		
87111 Ap B	Materials Processor/Manufacturer Inspection References 06/11/98 (98-008)		
87112	Irradiator Programs 11/27/018 (01-027)		
87112 Ap A	Irradiator Inspection Record 11/27/01 (01-027)		
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87113	Well Logging Programs 06/11/98 (98-008)		
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87114	Fixed and Portable Gauge Programs 06/11/98 (98-008)		
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87115	Nuclear Medicine Programs 08/28/00 (00-013)		
87116	Medical Teletherapy Programs 08/28/00 (00-013)		
87117 87117 Ap A	Radiopharmacy Programs 05/07/98 (98-007)		
87117 Ap A	Radiopharmacy Inspection Record 06/18/99 (99-009) Radiopharmacy Inspection References 05/07/98 (98-007)		
87118	Brachytherapy Programs 08/28/00 (00-013)		
87119	Medical Broad-Scope Programs 08/28/00 (00-013)		
87120	Industrial Radiography Programs 05/03/99 (99-008)		
87120 A	Industrial Radiography Inspection Record 06/18/99 (99-009)		
87120 B	Industrial Radiography Inspection References 05/03/99 (99-008)		
87250	Locating Missing Materials Licensees 10/29/01 (01-022)		
87654	Uranium Mill Site Decommissioning Inspection 09/02/97 (97-013)		

# 8800 Fuel Facility Inspection

88001 88002	On-Site Construction 04/15/94 (94-011) Operational Event Review and Feedback Programs at Fuel Cycle Facilities 12/20/96 (96-025)
88003	Reactive Inspection For Events At Fuel Cycle Facilities 08/10/98 (98-012)
88005	Management Organization and Controls 05/23/84 (84-17)
88010	Operator Training/Retraining 05/23/84 (84-17)
88015	Headquarters Nuclear Criticality Safety Program 12/20/96 (96-025)
88020	Regional Criticality Safety Inspection Program 12/20/96 (96-025)
88025	Maintenance and Surveillance Testing 05/23/84 (84-17)

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88035	Radioactive Waste Management 05/23/84 (84-17)
88045	Environmental Protection 05/23/84 (84-17)
88050	Emergency Preparedness 04/08/96 (96-007)
88055	Fire Protection 01/14/91 (91-001)
88056	Process Safety Information 01/16/96 (96-001)
88057	Hazard Identification Information 01/16/96 (96-001)
88058	Standard Operating Procedures 01/16/96 (96-001)
88059	Site-Wide Safety Procedures 01/16/96 (96-001)
88060	Detection and Monitoring 01/16/96 (96-001)
88061	Chemical Safety Training 01/16/96 (96-001)
88062	Maintenance and Inspection 01/16/96 (96-001)
88063	Management of Change 01/16/96 (96-001)
88064	Emergency Response Procedures 01/16/96 (96-001)
88065	Incident Investigation 01/16/96 (96-001)
88066	Audits and Inspection 01/16/96 (96-001)
88100	Plant Operations 12/30/96 (96-026)
88101	Configuration Control 12/30/96 (96-026)
88102	Surveillance Observations 12/30/96 (96-026)
88103	Maintenance Observations 12/30/96 (96-026)
88104	Decommissioning Inspection Procedure For Fuel Cycle
	Facilities 06/04/97 (97-007)
88105	Management Organization and Controls 12/30/96 (96-026)

- 8900 Fuel Facility and Materials Special Program
  - 89001 In-Situ Leach (ISL) Facilities 09/02/97 (97-013)
- 9000 Reportable Matters and Report Reviews

90501B	Reportable Matters - Startup Test Program 04/30/75 (75-16)
90712	Inoffice Review of Written Reports of Nonroutine Events at Power Reactor Facilities 12/31/98 (98-020)
90713	In Office Review of Periodic and Special Reports 09/17/01 (01-017)
90714	Nonroutine Reporting Program 09/17/01 (01-017)

9100 <u>Title 10 Requirements</u>

## 9200 Planned Non-Routine Activities

92050	Review of Quality Assurance For Extended Construction
	Delay 04/04/00 (00-005)
92700	Onsite Followup of Written Reports of Nonroutine Events
	at Power Reactor Facilities 12/31/98 (98-020)
92701	Followup 03/14/94 (94-005)
92702	Followup on Corrective Actions for Violations and Deviations
	03/14/94 (94-005)

<u>1 / (( )   )</u>	PROCEDUR	<u>E</u>
	92703	Followup of Confirmatory Action Letters 11/08/01 (01-025)
	92709 92711	Licensee Plans for Coping With Strikes 08/21/92 (92-010) Continued Implementation of Strike Plans During an Extended
		Strike 08/21/92 (92-010)
	92712	Resumption of Normal Operations After a Strike 08/21/92 (92-010)
	92901	Followup - Plant Operations 09/17/01 (01-017)
	92902 92903	Followup - Maintenance 09/17/01 (01-017) Followup - Engineering 09/17/01 (01-017)
	92904	Followup - Plant Support 09/17/01 (01-017)
9300	Non-Routine	Activities
0000		
	93001 93702	OHSA Interface Activities 05/22/89 (89-009) Prompt Onsite Response To Events At Operating Power
	93702	Reactors 09/17/01 (01-017)
	93800	Augmented Inspection Team 04/03/00 (00-003)
	93801	Safety System Functional Inspection (SSFI) 07/25/96 (96-016)
	93802	Operational Safety Team Inspection (OSTI) 11/27/89 (89-015)
	93803	Safety Systems Outage Modifications Inspection 04/27/89 (89-008)
	93804	Risk-Based Operational Safety and Performance Inspection 01/15/92 (92-001)
	93805	Maintenance Program 08/06/93 (93-070)
	93806	Operational Readiness Assessment Team Inspections 09/29/98 (98-015)
	93807	Systems Based Instrumentation and Control Inspection 01/29/93 (93-001)
	93809	Safety System Engineering Inspection (SSEI) 06/23/97 (97-009)
	93810	Service Water System Operational Performance Inspection (SWSOPI) 09/14/98 (98-013)
	93811	Electrical Distribution System Functional Inspection (EDSFI) 02/03/99 (99-002)
	93812	Special Inspection 03/06/01 (01-006)
0.400	- · · · · ·	

9400 <u>Technical Activities of an Administrative Nature</u>

# 9500 Strategic Determination Actions

95001	Inspection for One or Two White Inputs in a Strategic
	Performance Area 03/06/01 (01-006)
95002	Inspection for One Degraded Cornerstone or Any three White
	Inputs in a Strategic Performance Area 03/06/01 (01-006)
95003	
	Red Input 04/03/00 (00-003)
95003	Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or One

PART PROCEDURE 9600 <u>Reserved</u>

9700 <u>Reserved</u>

9800 <u>Reserved</u>

# PART TECHNICAL GUIDANCE

9900 Guidance<sup>2</sup>

99000 99100	Technical Guidance 05/12/86 (86-26) Health Physics Positions 10/30/92 (92-011)				
Technical Guidance					
Reg. Guide 1.16,	Para. C.2.a(2) and C.2.b(2) - Reporting Requirements - Degraded Mode 04/01/79 (79-05)				
Reg. Guide 1.16,	Para. C.2.a(3) - Reporting Requirements - Abnormal Degradation 04/01/78 (78-11)				
Reg. Guide 1.16,	Para. C.2.a(4) - Reporting Requirements - Reactivity Anomalies 07/01/78 (78-24)				
Reg. Guide 1.33 - "Procedure Implementation" as used in Section 6.8.1 of Standard Technical Specifications 04/01/77 (77-05)					
Reg. Guide 1.58 - Qualifications of Nuclear Power Plant Inspection, Examination and Testing Personnel 04/01/77 (77-05)					
ASME Secton III	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III 06/16/89 (89-011)				
ASME Section III & XI	American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III & XI 11/12/96 (96-022)				
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ANSI	ANSI N45.2.9, Section 5.5 - Records Storage Facility 1/01/82 (81-28)				

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

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