

# NRC INSPECTION MANUAL

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### 5300 Containment Penetrations

- 53051 Containment Penetrations (Mechanical) Procedure Review  
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- 53053 Containment Penetrations (Mechanical) Work Observation  
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- 53055 Containment Penetrations (Mechanical) Record Review 01/17/84  
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- 55100 Structural Welding General Inspection Procedure 06/20/83 (83-06)
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### 5600 Calibration

- 56700 Calibration 03/23/05 (05-008)

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- 57060 Liquid Penetrant Testing Examination 03/09/99 (99-003)
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- 60705 Preparation for Refueling 07/27/95 (95-009)
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- 60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors  
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| 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)   |
| 70308 | Preoperational Hot Functional Testing - PWR Procedure Review 10/01/83 (reactivated 08-032)  |
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| 70323 | Containment Leak Rate Test Results Evaluation<br>10/03/85 (85-30)  |
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| 70331 | Vibration Test- Preoperational Test Procedure Review<br>01/01/79 (reactivated 09-003)                                      |
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| 70333 | Chemical Control System Test - Preoperation Test Procedure<br>Review 01/01/79 (reactivated 09-003)                         |
| 70334 | Engineered Safety Features Act. Sys.Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)           |
| 70335 | Safety and Relief Valve Test - Preoperational Test Procedure<br>Review 01/01/79 (reactivated 09-003)                       |
| 70336 | Residual / Decay Heat Removal System Test - Preoperational<br>Test Review 01/01/79 (reactivated 09-003)                    |
| 70337 | Main Stream Isolation Valve Test - Preoperational Test<br>Procedure Review) 01/01/79 (reactivated 09-003)                  |
| 70338 | Auxilliary Feedwater System Test -Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                    |
| 70339 | Component Cooling Water System Test - Preoperational; Test<br>Procedure Review 01/01/79 (reactivated 09-003)               |
| 70340 | D.C. Power System Test - Preoperational Test Procedure<br>Review 01/01/79 (reactivated 09-003)                             |
| 70341 | Emergency/Standby Power Supply System Test -<br>Preoperational Teat Procedure Review 01/01/79 (reactivated<br>09-003)      |
| 70342 | Containment Combustable Gas Control System Test -<br>Preoperational Test Procedure Review 01/01/79 (reactivated<br>09-003) |
| 70344 | Containment Isolation Vales Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                   |
| 70345 | Containment Heat/Cool/Vent. System Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)            |
| 70346 | Aux. Bldg. Heat /Cool/Vent. System Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)            |
| 70347 | Pressurizer and Level Control System Test- Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)           |

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| 70349 | Reactor Coolant Leak Detection System Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003) |
| 70350 | Loose Parts Monitoring System Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)         |
| 70351 | Integrated Reactor Control System Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)     |
| 70352 | Remote Reactor Shutdown Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)               |
| 70353 | Cranes, Hoists and Lifting Equipment Test - Preoperational<br>Test Procedure Review 01/01/79 (reactivated 09-003)  |
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| 70355 | Compressed Gas System Test - Preoperational Test<br>Procedure Review 01/01/79 (reactivated 09-003)                 |
| 70362 | Reactor Coolant System Hydrostatic Test Procedure Review<br>10/01/83 (reactivated 08-032)                          |
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| 70432 | Control Rod System Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                          |
| 70433 | Chemical Control System Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                     |
| 70434 | Engineered Safety Features Act. Sys. Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)        |
| 70435 | Safety and Relief Valves Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                    |
| 70436 | Residual / Decay Heat Removal System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)        |
| 70437 | Main Stream Isolation Valve Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                 |
| 70438 | Auxilliary Feedwater System Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                 |
| 70439 | Component Cooling Water System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)              |
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| 70443 | Containment Spray System Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                   |
| 70444 | Containment Isolation Valve Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                |
| 70445 | Containment Heat/Cool/Vent. System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)         |
| 70446 | Auxiliary Bldg. Heat/Cool/Vent. System Test - Preoperational Test<br>Witnessing                                   |
| 70447 | Pressurizer and Level Control System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)       |
| 70448 | Main Feedwater Control System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)              |
| 70449 | Reactor Coolant Leak Detection System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)      |
| 70450 | Loose Parts Monitoring System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)              |
| 70451 | Integrated Reactor Control System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)          |
| 70452 | Remote Reactor Shutdown Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                    |
| 70453 | Cranes, Hoists and Lifting Equipment Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)       |
| 70454 | Nuclear Instrumentation System Test - Preoperational Test<br>Witnessing 01/01/79 (reactivated 09-003)             |
| 70455 | Compressed Gas System Test - Preoperational Test Witnessing<br>01/01/79 (reactivated 09-003)                      |
| 70462 | Reactor Coolant System Hydrostatic Test - Test Witnessing<br>10/01/83 (reactivated 08-032)                        |
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| 71111.01   | Adverse Weather Protection (Effective 01/01/10) 11/09/09 (09-026)                            |
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| 71111.12    | Maintenance Effectiveness 01/31/08 (08-005)   |
| 71111.12    | Maintenance Effectiveness (Effective 01/01/10) 11/16/09 (09-027)                                    |
| 71111.13    | Maintenance Risk Assessments and Emergent Work Control 01/31/08 (08-005)                            |
| 71111.13    | Maintenance Risk Assessments and Emergent Work Control 11/16/09 (Effective 01/01/10) (09-027)       |
| 71111.15    | Operability Evaluations 01/31/08 (08-005)   |
| 71111.15    | Operability Evaluations (Effective 01/01/10) 11/16/09 (09-027)                                      |
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| 71124.04 | Occupational Dose Assessment 12/02/09 (09-030)   |
| 71124.05 | Radiation Monitoring Instrumentation 12/02/09 (09-030)   |
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| 71130.04 | Equipment Performance, Testing and Maintenance 02/24/10 (10-<br>007)   |
| 71130.05 | Protective Strategy Evaluation 02/24/10 (10-007)   |
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| 71302    | Preoperational Test Program Implementation Verification 10/01/83<br>(reactivated 08-032)                               |
| 71303    | Part 52, Technical Specifications Review 10/20/08 (08-029)   |
| 71714    | Cold Weather Preparations 09/17/01 (01-017)  |
| 71715    | Sustained Control Room and Plant Observation 04/14/92<br>(92-004)  |
| 71801    | Decommissioning Performance and Status Review at   |

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71841 Permanently Shutdown Reactors 08/11/97 (97-012)  
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  
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  
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| 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 PI01/14/86 (86-03)  |

### 7300 In-service Inspection

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| 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 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 | Reserved for Part 52 In-service Inspection - Observation of Work and Work Activities           |
| 73755 | In-service Inspection - Data Review and Evaluation 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

### 7700 Reserved

### 7800 High Level Waste

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| 78010 | 10 CFR Part 21 Program 09/11/08 (08-026) |
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### 7900 Water Chemistry

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| 79501 | LWR Water Chemistry Control and Chemical Analysis – Audits<br>02/24/89 (reactivated 08-032) |
| 79502 | Plant Systems Affecting Plant Water Chemistry 12/31/91<br>(reactivated 08-032)              |
| 79503 | Reserved for Part 52 LWR Water Chem. Control & Chem. Analysis<br>(Pre-Op and Supp)          |
| 79504 | Reserved for Part 52 Plant systems Affecting Plant Water Chem.                              |
| 79702 | Control and monitoring of Radiological Source Term<br>04/17/00 (00-006)                     |

## 8000 Environmental Protection

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| 80210 | Environmental Protection - Initial and Periodic Inspections<br>06/22/05 (05-016)                         |
| 80211 | Reserved for Part 52 Environmental Protection - Initial & Periodic<br>Inspection                         |
| 80521 | Radiological Environmental Monitoring (Preoperational and<br>Supplemental) 01/01/84 (reactivated 08-032) |
| 80522 | Part 52, Radiological Environmental Monitoring Program (REMP)<br>07/01/08 (08-019)                       |
| 80721 | Radiological Environmental Monitoring 09/17/01(01-017)   |

## 8100 Physical Security

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|---------|--|
| 81001   | Independent Spent Fuel Storage Installations 09/17/01 (01-017)   |
| 81001.1 | Independent Spent Fuel Storage Installation(s) at Operating Plants<br>02/02/04 (04-003)                  |
| 81018   | Physical Security Plan and Implementing Procedures 05/24/07 (07-<br>17)                                  |
| 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<br>Controlled Access Areas 09/10/07 (07-027) |
| 81055   | Reserved for Part 52 Physical Barriers - Vital Areas, Material<br>Access Areas & Controlled Access Areas |
| 81058   | Security System Power Supply 09/10/07 (07-027)   |

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| 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) – 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)<br>(Note this IP contains safeguards material) |
| 81310 | Physical Protection of Shipments of Irradiated Fuel 12/22/08 (08-037)  |
| 81335 | Physical Protection of Shipments of Special Nuclear Material of Moderate Strategic Significance (SNM-MSS) 12/02/09 (09-029)  |
| 81340 | Physical Protection of Shipments of Special Nuclear Material of Low Strategic Significance (SNM-LSS) 11/23/09 (09-028)   |
| 81360 | 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  |

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|       | Material of Low Strategic Significance 12/02/09 (09-029)   |
| 81501 | Personnel Training and Qualification - General Requirements<br>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.<br>Requirements   |
| 81504 | Fitness for Duty Program for Construction 10/15/09 (09-024)  |
| 81601 | Safeguards Contingency Plan - Implementation Review<br>12/22/08 (08-037)   |
| 81602 | Reserved for Part 52 Safeguards Contingency Plan -<br>Implementation Review  |
| 81700 | Physical Security Program for Power Reactors<br>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<br>(NSI) and Restricted Data (RD) 12/22/08 (08-037)                                 |
| 81820 | Physical Protection Facility Approval and Safeguarding<br>of National Security Information (NSI) and Restricted<br>Data (RD) 12/22/08 (08-037) |

## 8200 Emergency Planning

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|-------|--|
| 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)      |

## 8300 Radiation Protection

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| 83100    | Occupational Exposure During SAFSTOR and DECON<br>12/30/91 (91-022)  |
| 83311    | Reserved for Part 52, Radiation Protection During Construction   |
| 83501    | Significant Uncontrolled Radiation Exposures<br>04/17/00 (00-006)  |
| 83502.01 | Radioactive Gaseous and Liquid Treatment and Monitoring<br>Systems 04/17/00 (00-006)   |
| 83502.02 | Radioactive Material Process and Transportation<br>04/17/00 (00-006)   |
| 83502.03 | Radiological Environmental Monitoring Program and<br>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<br>Environmental: Organization and Management Controls 12/31/91<br>(reactivated 08-032)       |
| 83523    | Radiation Protection, Plant Chemistry, Radwaste, Transportation<br>and Environmental: Training and Qualifications 01/01/84<br>(reactivated 08-032) |
| 83524    | External Occupational Exposure Control and Personal Dosimetry<br>(Preoperational and Supplemental) 01/01/84 (reactivated 08-032)                   |

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| 83525 | Internal Exposure Control and Assessment (Preoperational and Supplemental) 01/01/84 (reactivated 08-032)                                    |
| 83526 | Control Of Radioactive Materials and Contamination, Surveys, and 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 | Reserved for Part 52 External Occupational Exposure Control and Personal Dosimetry  |
| 83534 | Reserved for Part 52 Internal Exposure Control  |
| 83535 | Reserved for Part 52 Control of Radioactive Materials and Contamination, Surveys, and Monitoring  |
| 83536 | Reserved for Part 52 Facilities and Equipment   |
| 83537 | Reserved for Part 52 Maintaining Occupational Exposures ALARA   |
| 83722 | Radiation Protection, Plant Chemistry, and Radwaste: Organization and Management Controls (Minimum/Basic) 09/17/01 (01-017)                 |
| 83723 | General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03(03-041)                                 |
| 83724 | External Occupational Exposure Control and Personal Dosimetry 04/17/00 (00-006)   |
| 83725 | Internal Exposure Control and Assessment 04/17/00 (00-006)  |
| 83726 | Control of Radioactive Materials and Contamination, Surveys and Monitoring 09/17/01 (01-017)  |
| 83727 | Facilities and Equipment (Basic) 09/17/01 (01-017)  |
| 83728 | Maintaining Occupational Exposures ALARA 04/17/00 (00-006)  |
| 83729 | Occupational Exposure during Extended Outages 12/31/91 (91-021)   |
| 83746 | 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

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| 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)   |

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| 84523 | Liquids and Liquid Wastes (Preoperational and Supplemental)<br>01/01/84 (reactivated 08-032)   |
| 84524 | Gaseous Waste System (Preoperational and Supplemental)<br>01/01/84 (reactivated 08-032)  |
| 84525 | Quality Assurance and Confirmatory Measurements for In-Plant<br>Radiochemical Analysis (Preoperational and Supplemental) 5/23/85<br>(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<br>(Preoperational and Supplemental)   |
| 84750 | Radioactive Waste Treatment, and Effluent and Environmental<br>Monitoring 03/15/94 (94-006)  |
| 84850 | Radioactive Waste Management - Inspection of Waste Generator<br>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)<br>(Preoperational and Supplemental)   |

### 8500     Material Control and Accountability

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| 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<br>One Effective Kilogram of SNM 04/10/85 (85-15) |
| 85203 | Facility Organization and Management Controls<br>01/17/86 (86-04)                                     |
| 85205 | Facility Operations and Internal Controls 04/10/85 (85-15)  |
| 85207 | Measurement Systems 01/17/86 (86-04)  |
| 85209 | Measurement Control and Statistics 04/10/85 (85-15)   |
| 85211 | Physical Inventory 01/17/86 (86-04)   |
| 85215 | Records and Reports 01/17/86 (86-04)  |
| 85301 | MC&A for Imports and Exports 07/18/84 (84-22)   |
| 85303 | MC&A Management Structure and Personnel Training and<br>Qualification 03/18/91 (91-005)               |
| 85305 | Item Monitoring 03/18/91 (91-005)   |
| 85307 | Process Monitoring 03/18/91 (91-005)  |
| 85309 | Measurement Systems and Control 03/18/91 (91-005)   |
| 85311 | Physical Inventory 03/18/91 (91-005)  |
| 85313 | Alarm Resolution 03/18/91 (91-005)  |
| 85315 | Accounting and Internal Control 03/18/91 (91-005)   |
| 85401 | Management Structure 07/22/99 (99-011)  |
| 85402 | Measurement Control 07/22/99 (99-011)   |
| 85403 | Measurement Control Program 07/22/99 (99-011)   |
| 85404 | Physical Inventory 10/23/96 (96-021)  |
| 85405 | Item Control Program 07/22/99 (99-011)  |
| 85406 | Resolution Program 10/23/96 (96-021)  |
| 85407 | Assessment Program 07/22/99 (99-011)  |
| 85408 | Recordkeeping 07/22/99 (99-011)   |

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- 85420 Inspection of IAEA Safeguards for Inspectors at Power Reactors 06/22/88 (88-07)
- 85425 Implementation of US/IAEA Safeguards Agreement at Fuel Facilities 06/22/88 (88-07)
- 85501 Inventory Program 07/22/99 (99-011)
- 85502 Detection Program 07/22/99 (99-011)
- 85503 Resolution Program 07/22/99 (99-011)

8600 Spent Fuel and Other Radioactive Material Packaging and Shipping

- 86001 Design, Fabrication, Testing, and Maintenance of Transportation Packagings 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

- 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)
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- 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 Stereotactic 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

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8800 Fuel Facility Inspection

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| 88001 | On-Site Construction 04/15/94 (94-011)  |
| 88002 | 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)  |
| 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 (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-licensing and Construction) 05/18/05 (05-013)                                      |
| 88108 | Quality Assurance: Control of Materials, Equipment, and Services (Pre-licensing and Construction) 02/07/07 (07-006)                         |
| 88109 | Quality Assurance: Inspection, Test Control, and Control of Measuring and Test Equipment (Pre-licensing and Construction) 06/20/07 (07-020) |
| 88110 | Quality Assurance: Problem Identification, Resolution and Corrective Action 05/18/05 (05-013)   |
| 88111 | 10 CFR, Part 21, Inspection-Facility Construction 02/07/07 (07-006)   |
| 88112 | Reserved for Software Validation  |



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| 88113  | Control of the Electronic Management of Data 02/07/07 (07-006)   |
| 88114  | Quality Affecting Item Procurement (10 CFR Part 21) and<br>Commercial Grade Item Dedication Process [Reactive]<br>10/25/06 (06-030)              |
| 88115  | Supplier/Vendor Inspection (Construction Phase)<br>10/25/06 (06-030)   |
| 88116  | Inspection of Safety Function Interfaces for the Mixed Oxide Fuel<br>Fabrication Facility (Pre-licensing and Construction) 02/07/07 (07-<br>006) |
| 88130  | Resident Inspection Program for On-Site Construction Activities at<br>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<br>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)  |
| 88139  | Ventilation and Confinement Systems 08/08/07 (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<br>(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<br>Inspections  |
| 88159  | Reserved for Process Enclosures and Vessels  |
| 88160  | Reserved for Utilities and Bulk Chemicals  |
| 8900   | <u>Fuel Facility and Materials Special Program</u>   |
| 89001  | In-Situ Leach (ISL) Facilities 09/02/97 (97-013)   |
| 9000   | <u>Reportable Matters and Report Reviews</u>   |
| 90001  | Reserved for Limited Expanded Program Review Inspection  |
| 90002  | Reserved for Expanded Program Review Inspection  |
| 90003  | Reserved for Unacceptable Performance Inspection   |
| 90501B | Reportable Matters - Startup Test Program 04/30/75 (75-16)   |

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| 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

|       |   |
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| 92050 | Review of Quality Assurance for Extended Construction Delay 04/04/00 (00-005)   |
| 92700 | Onsite Follow-up of Written Reports of Non-routine Events at Power Reactor Facilities 12/31/98 (98-020)   |
| 92701 | Follow-up 03/13/07 (07-010)   |
| 92702 | 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 Operations After a Strike 08/21/92 (92-010)  |
| 92714 | Reserved for Part 52 Follow-up  |
| 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)   |
| 93702 | Prompt Onsite Response to Events at Operating Power Reactors 09/17/01 (01-017) |

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|       |   |
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| 93800 | Augmented Inspection Team 03/23/09 (09-010)   |
| 93801 | Safety System Functional Inspection (SSFI) 07/25/96<br>(96-016)                       |
| 93802 | Operational Safety Team Inspection (OSTI)<br>11/27/89 (89-015)                        |
| 93803 | Safety Systems Outage Modifications Inspection<br>04/27/89 (89-008)                   |
| 93804 | Risk-Based Operational Safety and Performance Inspection<br>01/15/92 (92-001)         |
| 93805 | Maintenance Program 08/06/93 (93-070)   |
| 93806 | Operational Readiness Assessment Team Inspections<br>09/29/98 (98-015)                |
| 93807 | Systems Based Instrumentation and Control Inspection<br>01/29/93 (93-001)             |
| 93810 | Service Water System Operational Performance Inspection<br>(SWSOPI) 09/14/98 (98-013) |
| 93811 | Electrical Distribution System Functional Inspection (EDSFI)<br>02/03/99 (99-002)     |
| 93812 | Special Inspection 03/23/09 (09-010)  |
| 93813 | Reserved for Part 52 Operational Readiness Assessment Team<br>Inspection              |

#### 9400 Technical Activities of an Administrative Nature

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

#### 9500 Strategic Determination Actions

|          |   |
|----------|---|
| 95001    | Inspection for One or Two White Inputs in a Strategic<br>Performance Area 11/09/09 (09-026)   |
| 95002    | Inspection for One Degraded Cornerstone or Any three White<br>Inputs in a Strategic Performance Area 11/09/09 (09-026)                            |
| 95003    | Inspection for Repetitive Degraded Cornerstones, Multiple<br>Degraded Cornerstones, Multiple Yellow Inputs, or One<br>Red Input 11/09/09 (09-026) |
| 95003.01 | Emergency Preparedness 01/15/09 (09-002)  |
| 95003.02 | Guidance for Conducting an Independent NRC Safety Culture<br>Assessment) 01/15/09 (09-002)  |

#### 9600 Materials Safety and Security

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

#### 9700 Reserved

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9800 Reserved

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9900 Guidance<sup>2</sup>

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)  |

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

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STS Interp                      Licensee Technical Specification Interpretations 02/03/97 (97-001)

Maintenance

Voluntary Entry into Limiting Conditions For Operation Action  
Statements to Perform Preventive Maintenance  
01/17/02 (02-001)

Assessing On-Line Leak Sealing of ASME Code Class 1 & 2  
07/15/97 (97-011)

Filled Organic Coatings Used in Maintenance of Safety Related  
Equipment 10/11/94 (94-018)

Preconditioning of Structures, Systems, and Components (SSCs)  
Before Determining Operability 09/28/98 (98-014) [PRECOND.TG]

Mechanical

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

Steam Generator Plugs and Sleeving Repairs 08/01/94 (94-014)

Steam Generator Tube-to-Secondary Leakage 09/09/03 (03-033)  
[TG\_Mech SGTUBELKG.wpd]

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)

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PART  
10 CFR GUIDANCE

|                             |   |
|-----------------------------|---|
| 10                          | Title 10 of the Code of Federal Regulations 12/08/86 (86-54)                              |
| 10CFR71 and<br>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<br>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<br>12/08/86 (86-54)                  |
| 70.51                       | Material Balance, Inventory, and Records Requirements<br>12/19/74 (74-11)                 |
| 70.52                       | Report of Accidental Criticality or Loss of Special Nuclear<br>Material 11/15/74 (74-010) |

Interpretations

END