

### POST-APPROVAL SITE INSPECTION FOR LICENSE RENEWAL

PROGRAM APPLICABILITY: IMC 2515

#### 71003-01 INSPECTION OBJECTIVES

01.01 To verify that license renewal programs and activities have been implemented in accordance with the requirements of Title 10 of the *Code of Federal Regulation*, Part 54, "Requirements for the Renewal of Operating Licenses for Nuclear Power Plants" (10 CFR Part 54), hereinafter referred to as the "rule", the conditions of licensee's renewed license, and the NRC's safety evaluation report.

01.02 To verify, on a sample basis, that outstanding commitments identified at the time a renewal license was granted (as documented in the plant-specific attachment to this IP) have been met. To meet this objective this Post-Renewal Inspection Program (PRIP) should be implemented either before or after the commencement of the extended period of operation.

01.03 To verify, on a sample basis, whether the licensee has made any amendment to the original license renewal application (LRA) describing any changes that materially affect the contents of the original LRA. The licensee may make changes to satisfy issues raised during the SER process or raised during a previous license renewal inspection (LRI).

01.04 To verify, as appropriate, that the summary description of the aging management programs and activities are contained in the FSAR Supplement and the description of the programs are consistent with the program implemented by the licensee.

#### 71003-02 INSPECTION REQUIREMENTS

02.01 General Inspection Requirements. The Post-renewal Inspections (PRIs) verify:

- a. Modifications to existing programs not previously verified during staff review of LRA, and LRIs conducted prior to approval of licensee's LRA.
- b. Licensee's program for managing commitments associated with LRA.

- c. Outstanding commitments identified during the LRA review process.
- d. FSAR Supplement.
- e. Addition or deletion, if any, of commitments identified during the LRA review process.

#### 02.02 Specific Inspection Requirements

- a. Inspection Plan. The team leader, assigned by the responsible regional administrator or his/her designee, will prepare an inspection plan outlines the commitments to be verified, if not all, and any other items to be inspected. The inspection plan should delineate the duration of inspection, the resources required, and inspector selections.
- b. Outstanding Commitments in PRIP. Review the plant-specific attachment to this inspection procedure to identify the outstanding license renewal commitments, and verify that they have been resolved. If any issue has not been resolved, determine what are the licensee's plans to resolve the issue and coordinate with NRR to determine the acceptability of those plans. The Regional Administrator responsible for the PRI being conducted will determine at his/her discretion if any subsequent PRIs are required to verify the resolution of the outstanding issue.
- c. Annual Update Review. Select a sample of plant modifications and Current Licensing Basis (CLB) changes the licensee made since the date of the original LRA. Determine that these changes were included in an annual FSAR update. Verify that newly installed plant equipment required to be in the scope of license renewal are included in appropriate aging management programs.
- d. Limited Integrated Plant Assessment and Record Review. Determine if the licensee removed or added systems, structures, components or commodity groups from/to its aging management program based on a review of the annual update to its FSAR or by queries to the licensee; and verify that a basis for its removal or addition was established and documented in a retrievable record.
- e. License Renewal Commitment Management Program Assessment. Review the licensee's program for managing commitments associated with license renewal. Evaluate the completeness of the licensee's program by comparing the commitments being tracked under it to the commitments documented in the appropriate attachment of this inspection procedure. The licensee shall provide the necessary documents of all commitments for the inspection team to review. Reference to the initial license renewal inspection reports might be helpful to ensuring that all commitments have been accounted for in the inspection plan.
- f. Final Safety Analysis Report (FSAR) Review. Perform a limited review of the FSAR Supplement and select representative items to verify that the facility is being operated in accordance with the FSAR supplement during the renewal term (extended period of operation).

03.01 General Guidance

- a. The PRIP may be implemented prior to or shortly after the commencement of the extended period of operation. Subsequent inspection(s) may be necessary if outstanding commitments remain after the completion of the initial PRI. Any outstanding commitments, after the extended period of operation commences, will be subject to NRC enforcement action.
- b. The attachment to this procedure for each plant shall be completed prior to the period of extended operation. The attachment will be used to document any outstanding commitments that could not be reviewed or verified as resolved during the initial license renewal inspections implemented in accordance with Inspection Procedure 71002 "License Renewal Inspection." The purpose of each attachment is to preserve the list of aging management commitments that were not implemented at the time of issuance of the renewed license for a specific plant. This list of commitments must be reviewed and verified during the PRI(s).
- c. Inspectors should familiarize themselves with the requirements and guidance relating to license renewal. Inspectors should familiarize themselves specifically with the LRA and associated safety evaluations performed by the staff for the specific plant to be inspected. License renewal requirements and guidance documents that should be reviewed prior to an inspection include:
  1. 10 CFR Part 54, "Requirements for Renewal of Operating License for Nuclear Power Plants."
  2. The statement of consideration (SOC) published with the revision to the rule in the Federal Register, Vol. 60, No. 88, Monday, May 8, 1995, pages 22461 to 22495.
  3. Regulatory Guide 1-188, "Standard Format and Content for Applications to Renew Nuclear Power Plant Operating Licenses," July 3, 2001.
  4. Nuclear Energy Institute 95-10, "Industry Guideline for Implementing the Requirements of 10 CFR Part 54 - The License Renewal Rule, " Revision 3, March, 2001.
  5. NRC approved positions relating to license renewal.
  6. NUREG - 1800, "Standard Review Plan for the Review of License Renewal Applications for Nuclear Power Plants," July, 2001.
  7. The Safety Evaluation Reports for the plant(s) to be inspected.
- d. During the resolution of outstanding commitments, the inspector should review the supporting documentation and with the assistance of NRR/DRIP/RLEP staff determine if the licensee has taken the appropriate actions, including corrective action, to resolve a particular commitment.

- e. The PRI may require visual inspection of structures and components during the resolution of a particular commitment. Therefore portions of inspection may have to be performed during a unit outage to allow visual observation of those structures and components which are not accessible during power operation, i.e. inside containment, normal high radiation areas, etc. The inspector should request assistance from NRR/DRIP/RLEP staff if the visual observations require intricate knowledge of aging effects to a specific structure or component.
- f. The initial plan is for only one PRI, but if there are still outstanding commitments after the first PRI is completed then the Regional Administrator will at his discretion determine if another PRI is deemed appropriate.

#### 71003-04 RESOURCE ESTIMATES

It has been estimated that the Post-renewal inspections will require approximately two weeks of inspection time onsite involving a team of four inspectors and a team leader. An additional week will be allocated each to inspection preparation, in-office review between two onsite weeks, and for documentation of the inspection results. The team leader will require an additional two weeks above each team member in order to finalize the inspection report. Based on these estimates, each PRI will require about .52 FTE.

END

Attachments:

Site-Specific List of Outstanding Commitments

For Post-Renewal Inspections

(The attachments are preliminary. Complete lists will be provided later)

- 1.1 Calvert Cliffs
- 1.2 Oconee Nuclear Station
- 1.3 Arkansas Nuclear One Unit 1
- 1.4 Edwin I. Hatch Nuclear Plant
- 1.5 Peach Bottom Atomic Power Station
- 1.6 Turkey Point Nuclear Plant
- 1.7 McGuire Nuclear Station
- 1.8 Catawba Nuclear Station
- 1.9 H.B. Robinson

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT CALVERT CLIFFS

1. Outstanding Commitments

(LATER).

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 1 - 7/31/1974; Unit 2 - 8/13/1976  
  
Date New License Expires: Unit 1 - 7/31/2034; Unit 2 - 8/13/2036  
  
Date in License Condition that AMPs must be implemented: Unit 1 - 7/31/2014; Unit 2 - 8/13/2016
- B. Safety Evaluation Report (SER) NUREG Number: 1705
- C. Initial license renewal inspection reports numbers: 50-317/99-02, 50-318/99-02, 50-317/99-04, 50-318/99-04, 50-317/99-12, 50-318/99-12

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT OCONEE NUCLEAR STATION

Outstanding Commitments

One Time Inspection

Cast Iron Selective Leaching Inspection  
Galvanic Susceptibility Inspection  
Keowee Air and Gas Systems Inspection  
Once Through Steam Generator Upper Lateral Support Inspection  
Pressurizer Examination  
Reactor Building Spray System Inspection  
Reactor Coolant Pump Motor Oil Collection System Inspection  
Small Bore Piping Inspection  
Treated Water System Stainless Steel Inspection  
Reactor Vessel Internal Inspection

Insulated Cables and Connections AGING Management Program

(LATER)

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 1 - 2/6/1973; Unit 2 - 10/6/1973; Unit 3 - 7/19/1974  
Date New License Expires: Unit 1 - 2/6/2033; Unit 2 - 10/6/2033; Unit 3 - 7/19/2034  
Date in License Condition that AMPs must be implemented: Unit 1 - 2/6/2013; Unit 2 - 10/6/2013; Unit 3 - 7/19/2014
- B. Safety Evaluation Report (SER) NUREG Number: 1723
- C. Initial license renewal inspection reports numbers: 50-269/99-11, 50-270/99-11, 50-287/99-11; 50-269/99-12, 50-270/99-12, 50-289/99-12; 50-269/2000-03, 50-270/2000-03, 50-289/2000-03

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT ARKANSAS NUCLEAR ONE UNIT 1

Outstanding Commitments

I. New Aging Management Programs

1. Buried Piping Inspection
2. Electrical Component Inspection
3. Heat Exchanger Monitoring
4. Pressurizer Cladding Examination
5. Pressurizer Heater Bundle Penetration Welds Examination
6. Reactor Vessel Internals Aging Management
7. Spent Fuel Pool Monitoring
8. Wall Thinning Inspection

II Enhanced Aging Management Programs

(LATER)

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued:5/20/1974  
Date New License Expires:5/20/2034  
Date in License Condition that AMPs must be implemented:5/20/2014
- B. Safety Evaluation Report (SER) NUREG Number:1743
- C. Initial license renewal inspection reports numbers:50-313/00-17, 50-313/01-03



SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT EDWIN I. HATCH NUCLEAR PLANT

Outstanding Commitments

I. New Aging Management Programs

1. Galvanic Susceptibility Inspection
2. Treated Water System Piping Inspection
3. Gas Systems Component Inspection
4. Condensate Storage Tank Inspection
5. Passive Component Inspection
6. RHR Heat Exchanger Augmented Inspection and Testing Program
7. Torus Submerged Components Inspection

II Enhanced Aging Management Programs

1. Fire Protection Programs
2. Flow Accelerated Corrosion Program
3. Protected Coating Program
4. Equipment and Piping Insulation Monitoring Program
5. Structure Monitoring Program

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 1 - 8/6/1974; Unit 2 - 6/13/1978  
Date New License Expires: Unit 1 - 8/6/2034; Unit 2 - 6/13/2038  
Date in License Condition that AMPs must be implemented: Unit 1 8/6/2014; Unit 2 - 6/13/2018
- B. Safety Evaluation Report (SER) NUREG Number: 1803
- C. Initial license renewal inspection reports numbers: 50-321/00-09, 50-366/00-09, 50-321/00-10, 50-366/00-10

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT PEACH BOTTOM ATOMIC POWER STATION

Outstanding Commitments

I. New Aging Management Programs

1. Torus Piping Inspection
2. FSSD Cable Inspection

II Enhanced Aging Management Programs

1. Lubricating and Fuel Oil Quality Testing Program
2. Boraflex Management Review
3. Ventilation System Inspection and Testing
4. Emergency Diesel Generator Inspection
5. Outdoor, Buried, and Submerged Components Inspection
6. Door Inspection
7. Reactor Pressure Vessel and Internal Inspection
8. Generic Letter 89-13 Inspection
9. Fire Protection Program
10. HPCI and RCIC Turbine Inspection
11. Susquehanna Substation Wooden Pole Inspection
12. Heat Exchanger Inspection

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 2 - 8/8/1973; Unit 3 - 7/2/1974  
Date New License Expires: Unit 2 - 8/8/2033; Unit 3 - 7/2/2034  
Date in License Condition that AMPs must be implemented: Unit 2 - 8/8/2013;  
Unit 3 - 7/2/2014
- B. Safety Evaluation Report (SER) NUREG Number: \_\_\_
- C. Initial license renewal inspection reports numbers: 50-277/02-09, 50-278/02-09

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT TURKEY POINT NUCLEAR PLANT

Outstanding Commitments

I. New Aging Management Programs

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II. Enhanced Aging Management Programs

(LATER)

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 3 - 7/19/1972; Unit 4 - 4/10/1973  
Date New License Expires: Unit 3 - 7/19/2032; Unit 4 - 4/10/2033  
Date in License Condition that AMPs must be implemented: Unit 3 - 7/19/2012;  
Unit 4/10/2013
- B. Safety Evaluation Report (SER) NUREG Number: 1759
- C. Initial license renewal inspection reports numbers: 50-250/01-09, 50-252/01-09,  
50-250/01-11, 50-252/01-11

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT MCGUIRE NUCLEAR STATION

Outstanding Commitments

I. New Aging Management Programs

1. Alloy 600 Aging Management Review
2. Borated Water Systems Stainless Steel Inspection
3. Galvanic Susceptibility Inspection
4. Inaccessible Non-EQ Medium Voltage Cable Aging Management Review
5. Liquid Waste System Inspection
6. Non-EQ Insulated Cables and Connections Aging Management Review
7. Reactor Vessel Internal Inspection
8. Selective Leaching Inspection
9. Sump Pump Systems Inspection
10. Waste Gas System Inspection
11. Treated Water Systems Stainless Steel Inspection
12. Pressurizer Spray Head Examination

II Enhance Aging Management Programs

1. Inservice Inspection Plan, Including Cold Leg Elbow Augmented Inspection and Small Bore Piping Inspection

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 1 - 6/12/1981; Unit 2 - 3/3/1983  
Date New License Expires: Unit 1 - 6/12/2041; Unit 2 - 3/3/2043  
Date in License Condition that AMPs must be implemented: Unit 1 - 6/12/2021;  
Unit 2 - 3/3/2023
- B. Safety Evaluation Report (SER) NUREG Number:
- C. Initial license renewal inspection reports numbers: 50-369/02-05, 50-370/02-05,  
50-369/02-06, 50-370/02-06

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT CATAWBA NUCLEAR STATION

Outstanding Commitments

- I. New Aging Management Programs
  - 1. Alloy 600 Aging Management Review
  - 2. Borated Water Systems Stainless Steel Inspection
  - 3. Galvanic Susceptibility Inspection
  - 4. Inaccessible Non-EQ Medium Voltage Cables Aging Management Review
  - 5. Liquid Waste System Inspection
  - 6. Non-EQ Insulated Cables and Connections Aging Management Review
  - 7. Reactor Vessel Internal Inspection
  - 8. Selective Leaching Inspection
  - 9. Sump Pump Systems Inspection
  - 10. Treated Water Systems Stainless Steel Inspection
  - 11. Waste Gas System Inspection
  - 12. Pressurizer Spray Head Inspection
  
- II. Enhanced Aging Management Programs
  - 1. Inservice Inspection Plan, Including Small Bore Piping Inspection

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 1 - 12/6/1984; Unit 2 - 2/24/1986  
Date New License Expires: Unit 1 - 12/6/2044; Unit 2 - 2/24/2046  
Date in License Condition that AMPs must be implemented: Unit 1 - 12/6/2024;  
Unit 2 - 2/24/2026
  
- B. Safety Evaluation Report (SER) NUREG Number:
  
- C. Initial license renewal inspection reports numbers: 50-413/02-05, 50-414/02-05,  
50-413/02-06, 50-414/02-05

SITE-SPECIFIC LIST OF OUTSTANDING COMMITMENTS FOR  
POST-RENEWAL INSPECTION AT H. B. ROBINSON NUCLEAR PLANT

Outstanding Commitments

- I. New Aging Management Programs
  - 1. Alloy 600 Aging Management Review
  - 2. Borated Water Systems Stainless Steel Inspection
  - 3. Galvanic Susceptibility Inspection
  - 4. Inaccessible Non-EQ Medium Voltage Cables Aging Management Review
  - 5. Liquid Waste System Inspection
  - 6. Non-EQ Insulated Cables and Connections Aging Management Review
  - 7. Reactor Vessel Internal Inspection
  - 8. Selective Leaching Inspection
  - 9. Sump Pump Systems Inspection
  - 10. Treated Water Systems Stainless Steel Inspection
  - 11. Waste Gas System Inspection
  - 12. Pressurizer Spray Head Inspection
  
- II Enhanced Aging Management Programs
  - 1. Inservice Inspection Plan, Including Small Bore Piping Inspection

Reference Documents

Provide document identification information for the following:

- A. Facility Operating License  
Date Facility Operating License Issued: Unit 1 - 12/6/1984; Unit 2 - 2/24/1986  
Date New License Expires: Unit 1 - 12/6/2044; Unit 2 - 2/24/2046  
Date in License Condition that AMPs must be implemented: Unit 1 - 12/6/2024;  
Unit 2 - 2/24/2026
  
- B. Safety Evaluation Report (SER) NUREG Number:
  
- C. Initial license renewal inspection reports numbers: 50-413/02-05, 50-414/02-05,  
50-413/02-06, 50-414/02-05

