

## **APPENDIX A**

### **CHRONOLOGY**

This appendix contains a chronological listing of routine licensing correspondence between the U.S. Nuclear Regulatory Commission (NRC) staff and Southern Nuclear Operating Company, Inc. (SNC) regarding the NRC staff's review of the Edwin I. Hatch Nuclear Plant, Units 1 and 2, Hatch, application for license renewal. (Docket Nos. 50-321 and 50-366.)

October 27, 1997	In a letter (signed by H. L. Sumner) SNC indicated its intention to proceed forward with preparing a license renewal application for Plant Hatch Units 1 and 2 and requested a waiver of review fees.
January 15, 1998	In a letter (signed by H. L. Sumner) SNC informed NRC of its plans for product submittals for 1998.
April 13, 1998	In a letter (signed by H. L. Sumner) SNC informed NRC of its support for Baltimore Gas & Electric Company's License Renewal Application for Calvert Cliffs Nuclear Power Plant.
April 13, 1998	In a letter (signed by H. L. Sumner) SNC submitted its License Renewal Process Methodology Document for Plant Hatch.
May 3, 1998	In a letter (signed by S. Collins) NRC acknowledged SNC's interest in license renewal for Plant Hatch.
January 7, 1999	In a letter (signed by H. L. Sumner) SNC submitted the Hatch, Intake Structure Licensing Report as an example of the technical content and level of detail that Plant Hatch is planning for its application for license renewal.
January 25, 1999	In a letter (signed by W. G. Hairston) SNC informing the NCR of its support for the Commission's recent initiatives to streamline the hearing process.
May 14, 1999	In a letter (signed by H. L. Sumner) SNC submitted the attached Recirculation System Pressure Boundary Licensing Report to provide the NRC with an example of the technical content and level of detail that Plant Hatch is planning for its application for License Renewal.
November 12, 1999	In a letter (signed by H. L. Sumner) SNC requested exemption from 10 CFR 50.30(a)(2), 51.55(a), and 2.101(a)(3), and requested exception to 10 CFR 50.4(b) and 50.4(c): written submittal requirements.

January 24, 2000	In a letter (signed by B. Shelton) NRC responded to SNC's request for exemption from 10 CFR 50.30(a)(2), 51.55(a), and 2.101(a)(3), and request for exception to 10 CFR 50.4(b) and 50.4(c): written submittal requirements.
February 28, 2000	In a letter (signed by L. A. Reyes) NRC provided SNC with the NRC augmented inspection team report 50-321/00-01 and 50-366/00-01 on the January 26, 2000, Unit 1 reactor scram and subsequent transient that occurred at Hatch.
February 29, 2000	In a letter (signed by H. L. Sumner) SNC submitted its License Renewal Application (LRA) for Edwin I. Hatch Nuclear Plant, Units 1 and 2, (Hatch).
February 29, 2000	In a letter (signed by H. L. Sumner) SNC submitted its associated evaluation boundary drawings for the Plant Hatch Application for Renewed Operating Licenses.
March 3, 2000	In a letter (signed by C. Grimes) NRC informed SNC of the receipt of the Edwin I. Hatch, Units 1 and 2, LRA and Assignment of a Project Manager.
March 24, 2000	In a letter (signed by C. Grimes) NRC informed SNC of the determination of acceptability and sufficiency for docketing, proposed review schedule, and opportunity for a hearing regarding an application from SNC for renewal of the operating licenses for Units 1 and 2 of the Edwin I. Hatch Nuclear Plant.
April 4, 2000	In a letter (signed by D. Matthews) NRC informed SNC of the preparation of a notice of intent that advises the public that the NRC intends to gather information necessary to prepare a plant-specific supplement to the Commission's "Generic Environmental Impact Statement for License Renewal of Nuclear Plants," (NUREG-1437) in support of the review of the application for the renewal of the Hatch operating license.
April 4, 2000	In an electronic correspondence (signed by R. Baker) SNC provided the expanded matrix of programs/activities and commodity groups with a "system" column added.
April 6, 2000	In a memorandum (signed by W. Burton) NRC issued a public meeting notice to the stakeholders and the public and informed them of a meeting to be held on April 12, 2000, with SNC to familiarize the staff reviewers with Hatch scoping methodology and boundary drawings.

April 14, 2000	In a memorandum (signed by W. Burton) NRC provided SNC with a summary of the April 19, 2000, teleconference with SNC regarding aging management program A.3.7 of the Hatch LRA, "Torus Submerged Components Inspection Program."
April 28, 2000	In a memorandum (signed by R. K. Anand) NRC issued a public meeting notice to stakeholders and the public and informed them of a meeting to be held on May 8, 2000, with SNC to discuss progress of aging management program review of SNC's LRA for Hatch.
May 1, 2000	In a memorandum (signed by W. Burton) NRC provided SNC with a summary of the working meeting on April 12, 2000, with SNC, regarding scoping review for Hatch LRA.
May 4, 2000	In a memorandum (signed by S. Hoffman) NRC issued a public meeting notice to stakeholders and the public and informed them on a meeting to be held on May 17, 2000, between the NRC's License Renewal Steering Committee with the Nuclear Energy Institute's (NEI's) License Renewal Working Group to discuss NRC and industry generic license renewal activities.
May 23, 2000	In an electronic correspondence (signed by R. Baker) SNC provided the requested recent board changes in Oglethorpe Power Corporation.
May 24, 2000	In an electronic correspondence (signed by R. Baker) SNC submitted a database sort of unctions on a system-by-system basis and another sort of present systems on a function-by-function basis.
May 30, 2000	In a letter (signed by J. H. Wilson) NRC requested additional information related to the staff's review of Severe Accident Mitigation Alternatives for Hatch.
May 31, 2000	In a letter (signed by H. L. Sumner) SNC provided additional information supporting license renewal environmental report and submitted a copy of a matrix developed during SNC's review of Category 1 items for new and significant information.
June 1, 2000	In a memorandum (signed by R. Prato and W. Burton) NRC provided SNC with a summary of the May 17, 2000, meeting with Entergy and SNC regarding license renewal activities for Arkansas Nuclear One - Unit 1 (ANO-1) and Hatch.
June 16, 2000	In an electronic correspondence (signed by R. Baker) SNC provided a revised function to system matrix to replace the version provided on May 24, 2000.

June 20, 2000	In a letter (signed by C. A. Casto) NRC informed SNC of the license renewal inspection schedule for Hatch.
June 20, 2000	In an electronic correspondence (signed by R. Baker) SNC submitted a matrix mapping the cracking aging mechanisms discussed in the various C.2 commodity groups.
June 23, 2000	In a letter (signed by J. H. Wilson) NRC requested additional information related to the staff's review of the License Renewal Environmental Report for Hatch.
June 27, 2000	In a letter (signed by W. Burton) NRC informed SNC of the schedule revision for the review of the Hatch LRA.
June 27, 2000	In a letter (signed by L. N. Olshan) NRC requested additional information concerning the Liquid and Gaseous Radwaste System at Hatch.
July 14, 2000	In a letter (signed by W. Burton) NRC requested additional information (RAI) on LRA Sections 2.1, 2.2, 2.3.1, (SER Section 2.3.2), 2.3.2, 2.3.3, 2.3.4, 2.3.5, 2.4, 2.5, 3.2.3 (SER Section 3.3), and 3.2.5 (SER Section 3.5).
July 26, 2000	In a letter (signed by H. L. Sumner) SNC provided its response to the NRC RAIs related to the review of severe accident mitigation alternatives for Hatch.
July 26, 2000	In an electronic correspondence (signed by H. L. Sumner) SNC provided its response to the NRC RAIs concerning the Liquid and Gaseous Radwaste System at Hatch.
July 28, 2000	In a letter (signed by W. Burton) NRC request SNC to provide additional information (RAI) on LRA Sections 2.3.3, 2.3.4.
August 11, 2000	In a memorandum (signed by W. Burton) NRC issued a non-public meeting notice to stakeholders informed them on a meeting to be held on August 23, 2000, to review samples of Hatch environmental qualification calculations to verify calculation methods as applies in the Hatch LRA.
August 11, 2000	In a letter (signed by H. L. Sumner) SNC provided its response to the NRC RAIs on the renewal environmental report of the Hatch LRA requested on June 23, 2000.
August 21, 2000	In a letter (signed by H. L. Sumner) SNC provided its response to the NRC RAIs on the scoping and screening (Section 2 of the LRA) and aging management issues (Section 3 or 4 of the LRA) by providing a proposed schedule for response to these requests for additional information.

August 23, 2000	In a memorandum (signed by W. Burton) NRC provided SNC with a summary of the August 23, 2000, meeting with SNC regarding environmental qualification calculations for Hatch.
August 29, 2000	In an electronic correspondence (signed by R. Baker) SNC submitted drawing HL-16040 in response to RAI2.3.4-CBHVAC-4.
August 29, 2000	In a memorandum (signed by B. Boger and C. Casto) NRC informed SNC of the final Hatch License Renewal Inspection Plan.
August 29, 2000	In a letter (signed by H. L. Sumner) SNC provided its response to the NRC RAIs on the scoping and screening (Section 2) requested on July 14, 2000, and July 28, 2000.
August 31, 2000	In a letter (signed by H. L. Sumner) SNC provided clarification on the requested additional information (RAI) related to the review of severe accident mitigation alternative dated May 30, 2000.
September 25, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a correction to RAI 3.1.5-6 and a summary of the staff position on complex assemblies.
October 1, 2000	In an electronic correspondence (signed by R. Baker) SNC provide NRC with the Hatch License Renewal Scoping Inspection follow-up items that remained outstanding following the technical debrief on September 15, 2000.
October 6, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with the revision to the first part of RAI 3.1.18-10.
October 10, 2000	In a letter (signed by H. L. Sumner) SNC provided its response to the NRC remaining RAIs on aging management programs requested on June 23, 2000, that were not covered in the SNC response dated August 29, 2000.
October 13, 2000	In an electronic correspondence (signed by R. Baker) SNC provided NRC with the scoping/screening RAI follow-ups on fire protection.
October 19, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a revision of the August 23, 2000, meeting summary for the EQ calculations.
October 19, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a summary of the September 13, 2000, and September 28, 2000, telecon related to fire protection.

October 20, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a summary of the September 13, 2000, and September 28, 2000, telecon related to HR, P&I, AD, COND, DPS, EDG, IA, and EHC.
October 20, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a summary of the September 13, 2000, and September 28, 2000, telecon related to RC, SLC, RHR, and CRD.
October 20, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a summary of the June 27, 2000, telecon related to plant service water and traveling water screens/trash racks.
October 20, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a summary of the June 29, 2000, telecon related to RCS, SLC, and BWRVIP.
October 25, 2000	In a letter (signed by A. Kugler) NRC requested comment on the draft plant-specific supplement to the "Generic Environmental Impact Statement for License Renewal of Nuclear Plants [GEIS]" (NUREG-1437) regarding Hatch.
November 1, 2000	In a letter (signed by C. Casto) NRC provided SNC with the scoping inspection report of the results of the inspection at the Birmingham, Alabama offices regarding SNC's Hatch LRA.
November 8, 2000	In an electronic correspondence (signed by W. Burton) NRC provided SNC with a summary of the October 24, 2000, telecon related to RHR heat exchangers and treatment of seismic II/I piping.
December 13, 2000	In a letter (signed by H. L. Sumner) SNC requested a partial fee waiver of 40 percent and that the staff take appropriate measures to account for its time so that such a waiver is realized.
December 15, 2000	In a letter (signed by H. L. Sumner) SNC submitted the required amendment (annual update) to the LRA originally submitted February 29, 2000.
January 5, 2001	In a letter (signed by W. Burton) NRC provided SNC with a draft of open items from the review of the Hatch LRA.
January 16, 2001	In a letter (signed by W. Burton) NRC provided SNC with a schedule revision for the review of the Hatch LRA.
February 1, 2001	Responses to draft open items provided to SNC by letter dated January 5, 2001.

## **APPENDIX B**

### **REFERENCES**

This appendix contains a listing of references used in the preparation of the Safety Evaluation Report prepared during the review of the license renewal application for Edwin I. Hatch Nuclear Plant Units 1 and 2 under Docket Numbers 50-321 and 50-366).

#### **AMERICAN CONCRETE INSTITUTE (ACI)**

ACI 301, "Specifications for Structural Concrete for Buildings."

ACI 318-63, "Building Code Requirements for Reinforced Concrete."

#### **AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)**

ASME Boiler and Pressure Vessel Code, July 1989.

ASME Boiler and Pressure Vessel Code, Section III, Rules for Construction of Nuclear Power Plant Components through Summer 1979.

ASME Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components.

ASME Boiler and Pressure Vessel Code, Section XI, Appendix G, 1995 Edition through 1996 Addenda.

#### **AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)**

ASTM A307, "Standard Specification for Carbon Steel Bolts and Steels, 60,000 psi Tensile Strength."

ASTM A325, "Standard Specification for Structural Bolts, Steel, Heat-Treated, 120 ksi and 105 ksi Minimum Tensile Strength."

ASTM A490, "Standard Specification for Heat-Treated Steel Structural Bolts, 150ksi Minimum Tensile Strength."

ASTM D975-1981, "Standard Specification for Diesel Fuel Oils."

#### **AMERICAN WATER WORKS ASSOCIATION (AWWA)**

AWWA C203, "AWWA Standard for Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape - Hot Applied," 1966.

## **BABCOCK AND WILCOX (BAW)**

BAW-2270, "Non-Class 1 Mechanical Implementation Guideline and Mechanical Tools," December 1997.

## **BOILING WATER REACTOR VESSEL AND INTERNALS PROJECT (BWRVIP)**

BWRVIP-05, "BWR RPV Shell Weld Inspection Recommendations," September 1995

BWRVIP-06, "Safety Assessment of BWR Reactor Internals," October 1995

BWRVIP-18, "Core Spray Internals Inspection and Flaw Evaluation Guidelines," July 1996

BWRVIP-26, "Top Guide Inspection and Flaw Evaluation Guidelines," December 1996

BWRVIP-27, "Standby Liquid Control System/Core Plate  $\Delta P$  Inspection and Flaw Evaluation Guidelines," April 1997

BWRVIP-38, "Shroud Support Inspection and Flaw Evaluation Guidelines," September 1997

BWRVIP-41, "BWR Jet Pump Assembly Inspection and Flaw Evaluation Guidelines," October 1997

BWRVIP-47, "BWR Lower Plenum Inspection and Flaw Evaluation Guidelines," December 1997

BWRVIP-48, "Vessel ID Attachment Weld Inspection and Flaw Evaluation Guidelines," March 1998

BWRVIP-60, "Evaluation of Crack Growth in BWR Low Alloy Steel RPV Internals," March 1999

BWRVIP-62, "Technical Basis for Inspection Relief for BWR Internal Components with Hydrogen Injection," December 1998

BWRVIP-74, "BWR Reactor Pressure Vessel Inspection and Flaw Evaluation Guidelines," September 1999.

BWRVIP-75, "Technical Basis for Revisions to Generic Letter 88-01 Inspection Schedules (NUREG-0313)," October 1999

BWRVIP-76, "BWR Core Shroud Inspection and Flaw Evaluation Guidelines," December 1999.

BWRVIP-78, "BWR Integrated Surveillance Program - Unirradiated Charpy Reference Curves for Surveillance Material," December 1999



## **BULLETINS (BL)**

NRC BL-80-11, "Masonry Wall Design," May 1980.

## **CODE OF FEDERAL REGULATIONS**

10 CFR Part 50.34, "Contents of application; technical information," Section (a)(1).

10 CFR Part 50.48, "Fire Protection"

10 CFR Part 50.49, "Environmental Qualification of Electric Equipment Important to Safety for Nuclear Power Plants."

10 CFR Part 50.55a, "Codes and Standards."

10 CFR Part 50.60, "Acceptance Criteria for Fracture Prevention Measures for Light water Nuclear Power Reactors for Normal Operation."

10 CFR Part 50.61, "Fracture Toughness Requirements for Protection Against Pressurized Thermal Shock Events."

10 CFR Part 50.62, "Requirements for Reduction of Risk from Anticipated Transients Without Scram (ATWS) Events for Light-Water-Cooled Nuclear Power Plants."

10 CFR Part 50.63, "Loss of All Alternating Current Power."

10 CFR Part 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants."

10 CFR Part 50.Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants."

10 CFR Part 50.Appendix G, "Fracture Toughness Requirements."

10 CFR Part 50.Appendix H, "Reactor Vessel Material Surveillance Program Requirements."

10 CFR Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants."

10 CFR Part 100, "Reactor Site Criteria."

## **CORRESPONDENCE**

Letter from T. Martin (NRC) to T. Tipton (NEI), dated October 1, 1996.

Letter from C.I. Grimes (NRC) to D. Walters (NEI), "Guidance on Addressing GSI 168 for license Renewal," Project 690, dated June 2, 1998.

Letter from H. L. Sumner (SNC) to NRC, "Reactor Pressure Vessel Shell Welds Examination," dated December 2, 1998.

Letter from B. D. Frew to C. R. Pierce, "Corrosion Allowance for Hatch 1 and 2 Vessel/Piping Systems," dated September 15, 1999, DF 9912, DRF B11-00827.

Letter from C. Grimes (NRC) to H. L. Sumner (SNC), "Request for Additional Information for the Review of the License Renewal Application of Plant Hatch," dated July 14, 2000.

Letter from C. Grimes (NRC) to H. L. Sumner (SNC), "Request for Additional Information for the Review of the License Renewal Application of Plant Hatch," dated July 28, 2000.

Letter from H. L. Sumner (SNC) to NRC, "Edwin I. Hatch Nuclear Plant - Response To License Renewal Requests for Additional Information," dated August 29, 2000.

Letter from R. L. Emch (NRC) to H. L. Sumner (SNC), "Edwin I. Hatch Nuclear Plant, Units 1 and 2 RE: Evaluation of Relief Requests RR-MC-9 and RR-12: Implementation of Subsections IWE and IWL of ASME Section XI for Containment Inspection," dated October 4, 2000

Letter from H. L. Sumner (SNC) to NRC, "Edwin I. Hatch Nuclear Plant - Response To License Renewal Requests for Additional Information," dated October 10, 2000.

Memorandum from T. Quay (NRC) to C. Grimes (NRC), "Edwin I. Hatch Nuclear Plant License Renewal Application - Scoping and Screening/Corrective Action Process Audit Report," dated October 10, 2000.

## **ELECTRIC POWER RESEARCH INSTITUTE (EPRI)**

EPRI NP-5461, "Component Life Estimation: LWR Structural Materials Degradation Mechanisms," September 1987.

EPRI NP-5769, "Degradation and Failure of Bolting in Nuclear Power Plants," Vols. 1 and 2, Project 2520-7, 1998.

EPRI NSAC/202-L, "Recommendations for an Effective Flow-Accelerated Corrosion Program."

EPRI TR-103515, "BWR Water Chemistry Guidelines," BWRVIP-29.

EPRI report TR-103840 "BWR Containments License Renewal Industry Report; Revision 1" July 1994

EPRI TR-103842, "Class I Structures Industry Report"

EPRI TR-104873, "Methodologies and Processes to Optimize Environmental Qualification Replacement Internals," February 1996.

EPRI TR-105747, "Guidelines for Reinspection of BWR Core Shrouds," BWRVIP-07, February 1996.

EPRI TR-105759, "An Environmental Factor Approach to Account for Reactor Water Effects in Light Water Reactor Pressure Vessel and Piping Evaluations"

EPRI TR-106092, "Evaluation of Thermal Aging Embrittlement for Cast Austenitic Stainless Steel Components in LWR Coolant Systems, " September 1997.

EPRI TR-106740, "BWR Core Spray Internals and Flaw Evaluation Guidelines," BWRVIP-18, July 1996.

EPRI TR-107079, "BWR Core Shroud Inspection and Flaw Evaluation Guidelines," Revision 2, BWRVIP-01, October 1996.

EPRI TR-107285, "BWR Top Guide Inspection and Flaw Evaluation Guidelines," BWRVIP-26, December 1996.

EPRI TR-107286, "BWR Standby Liquid Control System/Core Plate  $\Delta P$  Inspection and Flaw Evaluation Guidelines," BWRVIP-27, April 1997.

EPRI TR- 107396, "Closed Cooling Water Chemistry Guidelines," October 1997.

EPRI TR-107515, "Evaluation of Thermal Fatigue Effects on Systems Requiring Aging Management Review for License Renewal for the Calvert Cliffs Nuclear Power Plant"

EPRI TR-107521 related to void swelling

EPRI TR-107943, "Environmental Fatigue Evaluations of Representative BWR Components"

EPRI TR-108705, "BWR Vessel and Internals Project, Technical Basis for Inspection Relief for BWR Internal Components with Hydrogen Injection."

EPRI TR-108727, "BWR Lower Plenum Inspection and Flaw Evaluation Guidelines," BWRVIP-47, December 1997.

EPRI TR-108728, "BWR Jet Pump Assembly Inspection and Flaw Evaluation Guidelines," BWRVIP-41, October 1997.

EPRI TR-108823, "BWR Shroud Support Inspection and Flaw Evaluation Guidelines," BWRVIP-38, September 1997.

EPRI TR-108724, "Bessel ID Attachment Weld Inspection and Flaw Evaluation Guidelines," BWRVIP-48, February 1998.

EPRI TR-110356, "Evaluation of Environmental Thermal Fatigue Effects on Selected Components in a Boiling Water Reactor Plant"

EPRI TR-112214, "BWR Vessel and Internals Project, Proceedings: BWRVIP Symposium, November 12-13, 1998."

EPRI TR-113596, "BWR Vessel and Internals Project BWR Reactor Pressure Vessel Inspection and Flaw Evaluation Guidelines"

EPRI TR-114232, "BWR Core Shroud Inspection and Flaw Evaluation Guidelines," BWRVIP-76, November 1999.

EPRI TR-113596, "BWR Vessel and Internals Project BWR Reactor Pressure Vessel Inspection and Flaw Evaluation Guidelines," BWRVIP-74, September 1999.

EPRI TR-107396, "Closed Cooling Water Chemistry Guidelines."

## **FIRST ENERGY**

CR-199901648, Davis-Besse Nuclear Generating Station, "Root Cause Analysis Report, #2 CCW Pump Trip," October 2, 1999.

## **GENERAL ELECTRIC COMPANY**

GENE B11-00827-00-01, "Plant Hatch Units 1 and 2 Reactor Pressure Vessel Pressure/Temperature Limits License Renewal Evaluation," General Electric Company, March 1999.

GENE B11-00833-00-01, "Plant Hatch Reactor Pressure Vessel Aging Management Report," General Electric Company, November 1999 (GE Proprietary).

## **GENERIC LETTERS**

NRC GL 79-20, "Information Requested on PVR Feedwater Lines

NRC GL 85-20, "Resolution of Generic Issue 69: High Pressure Injection/Makeup Nozzle Cracking in Babcock and Wilcox Plants," November 11, 1985.

NRC GL 88-01, "NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping," 1989.

NRC GL 88-11, "NRC Position on Radiation Embrittlement of Reactor Vessel Materials and Its Impact on Plant Operations"

NRC GL 88-14, "Instrument Air Supply System Problems Affecting Safety-Related Equipment."

NRC GL 89-13, "Service Water System Problems Affecting Safety-Related Equipment."

NRC GL 90-05, "Guidance for Performing Temporary Non-Code Repair of ASME Code Class 1,2, and 3 Piping," June 1990.

NRC GL 91-17, "Resolution of Generic Safety Issue 29: Bolting Degradation or Failure in Nuclear Power Plants," October 1991.

NRC GL 92-01, Revision 1, Supplement 1, "Reactor Vessel Structural Integrity," May 18, 1995.

NRC GL 92-08, "Thermo-Lag 330-1 Fire Barriers," December 1992.

NRC GL 96-04, "Boraflex Degradation in Spent Fuel Pool Storage Racks."

### **GENERIC SAFETY ISSUES**

GSI-166, "Adequacy of the Fatigue Life of Metal Components"

GSI-168, "Environmental Qualification of Electrical Components"

GSI-190, "Fatigue Evaluation of Metal Components for 60-year Plant Life"

### **INFORMATION NOTICES (IN)**

NRC IN 87-65, "Lesson Learned from Regional Inspection of Applicant Actions in response to IE Bulletin 80-11, 'Masonry Wall Design'"

NRC IN 91-46, "Degradation of Emergency Diesel Generator Fuel Oil Deliver Systems," July 1991.

NRC IN 92-20, "Inadequate Local Leak Rate Testing," March 1992.

### **INSPECTION AND AUDIT REPORTS**

Edwin I. Hatch Nuclear Power Plant - NRC Inspection Report Nos. 50-321/00-09, 50-366/00-09, November 1, 2000

Edwin I. Hatch Nuclear Plant License Renewal Application - Scoping and Screening/Corrective Action Process Audit Report, October 10, 2000

### **INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)**

ANS/IEEE Std. 450-1980, "IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Storage Batteries for Generating Stations and Substations."

IEEE Std. 323-1974, "Qualifying Class 1E Equipment for Nuclear Power Generating Stations," 1974.

IEEE 43-1974, "Recommended Practice for Testing Insulation Resistance of Rotating Machinery"

IEEE 95-1977, "Recommended Practice for Insulation Testing of Large AC Rotating Machinery with High Direct Voltage"

## **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**

NFPA-25, "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems"

## **NUCLEAR ENERGY INSTITUTE**

NEI 95-10, "Industry Guideline for Implementing the Requirements of 10 CFR Part 54—The License Renewal Rule," Revision 0, March 1996.

NEI 95-10, "Industry Guideline for Implementing the Requirements of 10 CFR Part 54—The License Renewal Rule," Revision 1, January 2000.

NEI/NRC License Renewal Work Shop, Reference Documents, October 29, 1997.

## **NUREG REPORTS**

NUREG-0588, "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment"

NUREG-0612, "Control of Heavy Loads at Nuclear Power Plant."

NUREG-0619, "BWR Feedwater Nozzle and Control Rod Drive Return Line Nozzle Cracking, Resolution of Generic Technical Activity A 10," November 1980.

NUREG-0737, "Clarification of TMI Action Plan Requirements"

NUREG-1275, Volume 3, "Operating Experience Feedback Report - Service Water System Failure and Degradations."

NUREG-1339, "Resolution of Generic Safety Issue 29: Bolting Degradation or Failure in Nuclear Power Plants," 1990.

NUREG-1526, "Lessons Learned from Early Implementation of Maintenance Rule at Nine Nuclear Power Plants."

NUREG-1568, "License Renewal Demonstration Program: NRC Observations and Lessons Learned," December 1996.

NUREG/CR-5704, "Effects of LWR Coolant Environment on Fatigue Design Curves of Austenitic Stainless Steels," April 1999.

NUREG/CR-6260, "Application of NUREG/CR-5999, 'Interim Fatigue Curves to Selected Nuclear Power Plant Components'"

NUREG/CR-6335, "Fatigue Strain-Life Behavior of Carbon and Low-Alloy Steels, Austenitic Stainless Steels, and Alloy 600 in LRA Environments," August 1995.

NUREG/CR-6384, "Literature Review of Environmental Qualification of Safety-Related Electric Cables," Vol. 1, April 1996, Brookhaven National Laboratory, Prepared for U. S. Nuclear Regulatory Commission.

NUREG/CR-6583, "Effects of LWR Coolant Environments in Fatigue Design Curves of Carbon and Low-Alloy Steels"

## **PLANT HATCH SPECIFICATIONS**

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Procedure GES-26, "ULD Writers Guide," Revision 1.

Procedure NES-16, "Accident Analysis ULD and AIM Basis Document Format and Content," Revision 1.

Procedure 1000.150, "Licensing Document Maintenance," Revision 2.

Procedure 1409.66, "Component Level Q-List Project Design Review," Revision 0.

Procedure 5010.004, "Design Document Changes," Revision 3.

Procedure 5010.007, "Control of Upper Level Documents," Revision 3.

## **REGULATORY GUIDES (RG)**

NRC Regulatory Guide 1.154, "Format and Content of Plant-Specific Pressurized Thermal Shock Safety Analysis Reports for Pressurized Water Reactors."

NRC Regulatory Guide 1.46, Revision 0, "Protection Against Pipe Whip Inside Containment," Withdrawn August 11, 1985.

NRC Regulator Guide 1.99, Revision 2, "Radiation Embrittlement of Reactor Vessel Materials," May 1988.

## **REPORTS**

A-44985, "Structural Monitoring Program for the Maintenance Rule, Edwin I. Hatch Nuclear Plant," Units 1 and 2, Revision 4.

Edwin I. Hatch Final Safety Analysis Report Unit 1.

Edwin I. Hatch Final Safety Analysis Report Unit 2.

Edwin I. Hatch Nuclear Plant, Units 1 and 2, Final Hazards Analysis and Fire Protection Program.

Edwin I. Hatch Nuclear Plant Units 1 and 2, Environmental Qualification Central File.

"Flow-Accelerated Corrosion (FAC) Program, Hatch Nuclear Plant Units 1 and 2," Volumes 1 and 2, Southern Company Services Inc.,

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## APPENDIX C

### ABBREVIATIONS

A/C	air conditioning
ACI	American Concrete Institute
ACRS	Advisory Committee on Reactor Safeguards
AD	access doors system
AHU	air handling unit
AMP	aging management program
AMR	aging management review
ANL	Argonne National Laboratory
ANSI	American National Standard Institute
ART	adjusted reference temperature
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
ATWS	anticipated transient without scram
AWWA	American Water Works Association
BDP	boundary description packages
BOP	balance of plant
BTP	branch technical position
BWR	boiling water reactor
BWROG	BWR Owner's Group
BWRVIP	Boiling Water Reactor Vessel and Internals Project
CAP	corrective actions program
CBHVAC	control building HVAC
CCTL	component cyclic or transient limit program
CCW	closed cooling water
CDF	core damage frequency
CF	chemistry factor
CFR	<i>Code of Federal Regulations</i>
CLB	current licensing basis
CRD	control rod drive
CS	core spray
CST	condensate storage tank
CUF	cumulative usage factor
DBA	design basis accident
DBE	design basis event
DOR	Division of Operating Reactors
DWST	demineralized water storage tank
ECCS	emergency core cooling system
ECP	electrochemical potential
EDG	emergency diesel generator
EFPY	effective full power years

EHC	electro-hydraulic control
ELI	equipment location index
EPRI	Electric Power Research Institute
EQ	environmental qualification
EQML	environmental qualification master list
ESF	engineered safety features
FAC	flow accelerated corrosion
FAO	free available oxidant
FHA	fire hazards analysis
FP	fire protection
FR	<i>Federal Register</i>
FSAR	final safety analysis report
GE	General Electric
GEIS	generic environmental impact statement
GL	generic letter
GSI	generic safety issue
HE/ME	high energy/moderate energy
HELB	high energy line break
HNP	Edwin I. Hatch Nuclear Plant
HPCI	high-pressure coolant injection
HVAC	heating, ventilation, and air conditioning
HWC	hydrogen water chemistry
I&E	Inspection and Enforcement
I&E	inspection and evaluation
I/MPO	installation/maintenance procedure manual
IASCC	irradiation assisted stress corrosion cracking
IEEE	Institute of Electrical and Electronic Engineers
IGA	intergranular attack
IGSCC	intergranular stress corrosion cracking
ILRT	integrated leak rate test
IN	information notice
INPO	Institute for Nuclear Power Operations
IPA	integrated plant assessment
ISI	inservice inspection
ISP	integrated surveillance program
LEFM	linear elastic fracture mechanics
LOCA	loss of coolant accident
LOSP	loss of offsite power
LPCI	low-pressure coolant injection
LR	license renewal
LRA	license renewal application
LRT	leak-rate test
LWR	light-water reactor

MC	main condenser
MCR	main control room
MCRE	main control room envelope
MCRECS	main control room environmental control system
MIC	microbiologically-influenced corrosion
MSIV	main steam isolation valve
MSL	main steam line
NDT	nil-ductility transition temperature
NEI	Nuclear Energy Institute
NFPA	National Fire Protection Association
NMCA	noble metal chemical addition
NPAR	nuclear plant aging research
NPDES	national pollutant discharge elimination system
NPS	nominal pipe size
NRC	United States Nuclear Regulatory Commission
NSAC	Nuclear Safety Analysis Center
NSOA	nuclear safety operational analysis
NUMARC	Nuclear Management and Resources Council (now NEI)
P-T	pressure-temperature limits
P&I	primary containment purge and inerting
PCCW	primary containment chilled water
PSW	plant service water
PT	liquid penetrant
QA	quality assurance
QDP	qualification data package
RAI	request for additional information
RB	reactor building
RBCCW	reactor building closed cooling water
RCIC	reactor core isolation cooling
RCS	reactor coolant system
RE	refueling equipment system
RG	regulatory Guide
RHR	residual heat removal
RHRSW	RHR service water
RPS	reactor protection system
RPT	recirculating pump trip
RPV	reactor pressure vessel
RRS	reactor recirculation system
RSP	remote shutdown panel
RT	reference temperature
RT	radiographic test
RVID	reactor vessel integrity database
RWCU	reactor water cleanup

SAW	submerged arc weld
SC	structures and components
SCC	stress corrosion cracking
SE	safety evaluation
SECY	Office of the Secretary of the Commission
SED	system evaluation document
SER	safety evaluation report
SFP	spent fuel pool
SGTS	standby gas treatment system
SLCS	standby liquid control system
SMP	structural monitoring program
SNC	Southern Nuclear Operating Company, Inc.
SOC	statement of consideration
SPCS	steam and power conversion system
SRP	standard review plan
SRP-LR	standard review plan - license renewal
SRV	safety relief valve
SSCs	systems, structures, and components
SSPC	Steel Structures Paint Council
TGSCC	transgranular stress corrosion cracking
TLAA	time-limited aging analysis
TMI	Three Mile Island
TR	technical report
TS	technical specifications
TTA	tolytriazole
TV	tornado vents
TWSPI	treated water systems piping inspection
USAS	United States of America Standard
USE	upper shelf energy
UT	ultrasonic test
VFLD	vessel flange leak detection
WG	water gage

## APPENDIX D

### PRINCIPAL CONTRIBUTORS

#### LICENSE RENEWAL AND STANDARDIZATION BRANCH

<b><u>NAME</u></b>	<b><u>RESPONSIBILITY</u></b>
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## APPENDIX E

### REQUESTS FOR ADDITIONAL INFORMATION

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
2.1-SSM-1	July 14, 2000	August 29, 2000	Scoping and Screening Methodology
2.1-SSM-2	July 14, 2000	August 29, 2000	Scoping and Screening Methodology
2.2-SR-1	July 14, 2000	August 29, 2000	Scoping Results
2.2-SR-2	July 14, 2000	August 29, 2000	Scoping Results
2.2-SR-3	July 14, 2000	August 29, 2000	Scoping Results
2.2-SR-4	July 14, 2000	August 29, 2000	Scoping Results
2.3.2-NBS-1	July 14, 2000	August 29, 2000	Nuclear Boiler System
2.3.2-NBS-2	July 14, 2000	August 29, 2000	Nuclear Boiler System
2.3.2-RA-1	July 14, 2000	August 29, 2000	Reactor Assembly System
2.3.2-RA-2	July 14, 2000	August 29, 2000	Reactor Assembly System
2.3.2-RA-3	July 14, 2000	August 29, 2000	Reactor Assembly System
2.3.2-RA-4	July 14, 2000	August 29, 2000	Reactor Assembly System
2.3.3-ESF-1	July 14, 2000	August 29, 2000	Engineered Safety Features
2.3.3-ESF-2	July 14, 2000	August 29, 2000	Engineered Safety Features
2.3.3-HR-1	July 14, 2000	August 29, 2000	Post-LOCA Hydrogen Recombiners
2.3.3-HR-2	July 14, 2000	August 29, 2000	Post-LOCA Hydrogen Recombiners
2.3.3-HR-3	July 14, 2000	August 29, 2000	Post-LOCA Hydrogen Recombiners
2.3.3-HR-4	July 14, 2000	August 29, 2000	Post-LOCA Hydrogen Recombiners
2.3.3-P&I-1	July 14, 2000	August 29, 2000	Primary Containment Purge and Inerting System
2.3.3-P&I-2	July 14, 2000	August 29, 2000	Primary Containment Purge and Inerting System
2.3.3-P&I-3	July 14, 2000	August 29, 2000	Primary Containment Purge and Inerting System
2.3.3-RHR-1	July 14, 2000	August 29, 2000	Residual Heat Removal System
2.3.3-SGTS-1	July 14, 2000	August 29, 2000	Standby Gas Treatment System
2.3.3-SGTS-2	July 14, 2000	August 29, 2000	Standby Gas Treatment System



RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
2.3.3-SGTS-3	July 14, 2000	August 29, 2000	Standby Gas Treatment System
2.3.3-SLCS-1	July 14, 2000	August 29, 2000	Standby Liquid Control System
2.3.3-SLCS-2	July 14, 2000	August 29, 2000	Standby Liquid Control System
2.3.4-AD-1	July 14, 2000	August 29, 2000	Access Doors
2.3.4-CBHVAC-1	July 14, 2000	August 29, 2000	Control Building HVAC
2.3.4-CBHVAC-2	July 14, 2000	August 29, 2000	Control Building HVAC
2.3.4-CBHVAC-3	July 14, 2000	August 29, 2000	Control Building HVAC
2.3.4-CBHVAC-4	July 14, 2000	August 29, 2000	Control Building HVAC
2.3.4-COND-1	July 14, 2000	August 29, 2000	Condensate Transfer and Storage
2.3.4-COND-2	July 14, 2000	August 29, 2000	Condensate Transfer and Storage
2.3.4-COND-3	July 14, 2000	August 29, 2000	Condensate Transfer and Storage
2.3.4-CRD-1	July 14, 2000	August 29, 2000	Control Rod Drive System
2.3.4-DPS-1	July 14, 2000	August 29, 2000	Drywell Pneumatics System
2.3.4-DPS-2	July 14, 2000	August 29, 2000	Drywell Pneumatics System
2.3.4-DPS-3	July 14, 2000	August 29, 2000	Drywell Pneumatics System
2.3.4-EDG-1	July 14, 2000	August 29, 2000	Emergency Diesel Generators System
2.3.4-EDG-2	July 14, 2000	August 29, 2000	Emergency Diesel Generators System
2.3.4-EDG-3	July 14, 2000	August 29, 2000	Emergency Diesel Generators System
2.3.4-FPS-1	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-2	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-3	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-4	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-5	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-6	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-7	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-8	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-9	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-FPS-10	July 14, 2000	August 29, 2000	Fire Protection System
2.3.4-IA-1	July 14, 2000	August 29, 2000	Instrument Air System

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
2.3.4-IA-2	July 14, 2000	August 29, 2000	Instrument Air System
2.3.4-IN-1	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-2	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-3	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-4	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-5	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-6	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-7	July 14, 2000	August 29, 2000	Insulation System
2.3.4-IN-8	July 14, 2000	August 29, 2000	Insulation System
2.3.4-OSHVAC-1	July 14, 2000	August 29, 2000	Outside Structures HVAC
2.3.4-PCCW-1	July 14, 2000	August 29, 2000	Primary Containment Chilled Water System
2.3.4-PCCW-2	July 14, 2000	August 29, 2000	Primary Containment Chilled Water System
2.3.4-PSW-1	July 14, 2000	August 29, 2000	Plant Service Water System
2.3.4-PSW-2	July 14, 2000	August 29, 2000	Plant Service Water System
2.3.4-PSW-3	July 14, 2000	August 29, 2000	Plant Service Water System
2.3.4-PSW-4	July 14, 2000	August 29, 2000	Plant Service Water System
2.3.4-PSW-5	July 14, 2000	August 29, 2000	Plant Service Water System
2.3.4-RBHVAC-1	July 14, 2000	August 29, 2000	Reactor Building HVAC
2.3.4-RBHVAC-2	July 14, 2000	August 29, 2000	Reactor Building HVAC
2.3.4-RBHVAC-3	July 14, 2000	August 29, 2000	Reactor Building HVAC
2.3.4-RW-1	July 14, 2000	August 29, 2000	Radwaste System
2.3.4-TSR-1	July 14, 2000	August 29, 2000	Traveling Water Screens/Trash Racks
2.3.4-TV-1	July 14, 2000	August 29, 2000	Tornado Vents
2.3.5-EHC-1	July 14, 2000	August 29, 2000	Electro-Hydraulic Control System
2.3.5-EHC-2	July 14, 2000	August 29, 2000	Electro-Hydraulic Control System
2.3.5-MC-1	July 14, 2000	August 29, 2000	Main Condenser
2.3.5-SPCS-1	July 14, 2000	August 29, 2000	Steam and Power Conversion Systems

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
2.4-1	July 14, 2000	August 29, 2000	Structures - General
2.4-2	July 14, 2000	August 29, 2000	Structures - General
2.4-3	July 14, 2000	August 29, 2000	Structures - General
2.4-4	July 14, 2000	August 29, 2000	Structures - General
2.4-CRT-1	July 14, 2000	August 29, 2000	Conduits, Raceways, and Trays
2.4-EDGB-1	July 14, 2000	August 29, 2000	EDG Building
2.4-FS-1	July 14, 2000	August 29, 2000	Fuel Storage
2.4-FS-2	July 14, 2000	August 29, 2000	Fuel Storage
2.4-FS-3	July 14, 2000	August 29, 2000	Fuel Storage
2.4-IS-1	July 14, 2000	August 29, 2000	Intake Structure
2.4-IS-2	July 14, 2000	August 29, 2000	Intake Structure
2.4-IS-3	July 14, 2000	August 29, 2000	Intake Structure
2.4-IS-4	July 14, 2000	August 29, 2000	Intake Structure
2.4-PC-1	July 14, 2000	August 29, 2000	Primary Containment
2.4-PC-2	July 14, 2000	August 29, 2000	Primary Containment
2.4-PS-1	July 14, 2000	August 29, 2000	Piping Specialties
2.4-PS-2	July 14, 2000	August 29, 2000	Piping Specialties
2.4-PS-3	July 14, 2000	August 29, 2000	Piping Specialties
2.4-RB-1	July 14, 2000	August 29, 2000	Reactor Building
2.4-RB-2	July 14, 2000	August 29, 2000	Reactor Building
2.4-RB-3	July 14, 2000	August 29, 2000	Reactor Building
2.4-TB-1	July 14, 2000	August 29, 2000	Turbine Building
2.5-ELEC-1	July 28, 2000	October 10, 2000	Electrical
3.1-1	July 28, 2000	October 10, 2000	AMPs - General
3.1-2	July 28, 2000	October 10, 2000	AMPs - General
3.1-3	July 28, 2000	October 10, 2000	AMPs - General
3.1-4	July 28, 2000	October 10, 2000	AMPs - General
3.1-5	July 28, 2000	October 10, 2000	AMPs - General
3.1-6	July 28, 2000	October 10, 2000	AMPs - General

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1-7	July 28, 2000	October 10, 2000	AMPs - General
3.1.1-1	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-2	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-3	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-4	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-5	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-6	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-7	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-8	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-9	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-10	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-11	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.1-12	July 28, 2000	October 10, 2000	Reactor Water Chemistry Control
3.1.2-1	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.2-2	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.2-3	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.2-4	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.2-5	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.2-6	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.2-7	July 28, 2000	October 10, 2000	CCW Chemistry Control
3.1.3-1	July 28, 2000	October 10, 2000	Diesel Fuel Oil Testing
3.1.3-2	July 28, 2000	October 10, 2000	Diesel Fuel Oil Testing
3.1.3-3	July 28, 2000	October 10, 2000	Diesel Fuel Oil Testing
3.1.3-4	July 28, 2000	October 10, 2000	Diesel Fuel Oil Testing
3.1.4-1	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.4-2	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.4-3	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.4-4	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.4-5	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1.4-6	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.4-7	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.4-8	July 28, 2000	October 10, 2000	PSW and RHRSW Chemistry Control
3.1.5-1	July 28, 2000	October 10, 2000	Fuel Pool Chemistry Control
3.1.5-2	July 28, 2000	October 10, 2000	Fuel Pool Chemistry Control
3.1.5-3	July 28, 2000	October 10, 2000	Fuel Pool Chemistry Control
3.1.5-4	July 28, 2000	October 10, 2000	Fuel Pool Chemistry Control
3.1.5-5	July 28, 2000	October 10, 2000	Fuel Pool Chemistry Control
3.1.5-6	July 28, 2000	October 10, 2000	Fuel Pool Chemistry Control
3.1.6-1	July 28, 2000	October 10, 2000	Demineralized Water and CST Chemistry Control
3.1.7-1	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-2	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-3	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-4	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-5	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-6	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-7	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-8	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-9	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.7-10	July 28, 2000	October 10, 2000	Suppression Pool Chemistry Control
3.1.8-1	July 28, 2000	October 10, 2000	CAP
3.1.8-2	July 28, 2000	October 10, 2000	CAP
3.1.9-1	July 28, 2000	October 10, 2000	ISI Program
3.1.9-2	July 28, 2000	October 10, 2000	ISI Program
3.1.9-3	July 28, 2000	October 10, 2000	ISI Program
3.1.9-4	July 28, 2000	October 10, 2000	ISI Program
3.1.9-5	July 28, 2000	October 10, 2000	ISI Program
3.1.9-6	July 28, 2000	October 10, 2000	ISI Program

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1.9-7	July 28, 2000	October 10, 2000	ISI Program
3.1.10-1	July 28, 2000	October 10, 2000	Overhead Crane and Refueling Platform Inspections
3.1.10-2	July 28, 2000	October 10, 2000	Overhead Crane and Refueling Platform Inspections
3.1.10-3	July 28, 2000	October 10, 2000	Overhead Crane and Refueling Platform Inspections
3.1.10-4	July 28, 2000	October 10, 2000	Overhead Crane and Refueling Platform Inspections
3.1.10-5	July 28, 2000	October 10, 2000	Overhead Crane and Refueling Platform Inspections
3.1.10-6	July 28, 2000	October 10, 2000	Overhead Crane and Refueling Platform Inspections
3.1.11-1	July 28, 2000	October 10, 2000	Torque Activities
3.1.11-2	July 28, 2000	October 10, 2000	Torque Activities
3.1.11-3	July 28, 2000	October 10, 2000	Torque Activities
3.1.11-4	July 28, 2000	October 10, 2000	Torque Activities
3.1.11-5	July 28, 2000	October 10, 2000	Torque Activities
3.1.12-1	July 28, 2000	October 10, 2000	CCTLP
3.1.12-2	July 28, 2000	October 10, 2000	CCTLP
3.1.12-3	July 28, 2000	October 10, 2000	CCTLP
3.1.12-4	July 28, 2000	October 10, 2000	CCTLP
3.1.12-5	July 28, 2000	October 10, 2000	CCTLP
3.1.12-6	July 28, 2000	October 10, 2000	CCTLP
3.1.13-1	July 28, 2000	October 10, 2000	PSW and RHRSW Inspection Program
3.1.13-2	July 28, 2000	October 10, 2000	PSW and RHRSW Inspection Program
3.1.13-3	July 28, 2000	October 10, 2000	PSW and RHRSW Inspection Program
3.1.13-4	July 28, 2000	October 10, 2000	PSW and RHRSW Inspection Program
3.1.13-5	July 28, 2000	October 10, 2000	PSW and RHRSW Inspection Program

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1.14-1	July 28, 2000	October 10, 2000	Primary Containment Leakage Rate Testing Program
3.1.14-2	July 28, 2000	October 10, 2000	Primary Containment Leakage Rate Testing Program
3.1.15-1	July 28, 2000	October 10, 2000	BWRVIP
3.1.15-2	July 28, 2000	October 10, 2000	BWRVIP
3.1.15-3	July 28, 2000	October 10, 2000	BWRVIP
3.1.15-4	July 28, 2000	October 10, 2000	BWRVIP
3.1.15-5	July 28, 2000	October 10, 2000	BWRVIP
3.1.16-1	July 28, 2000	October 10, 2000	Wetted Cable Activities
3.1.16-2	July 28, 2000	October 10, 2000	Wetted Cable Activities
3.1.16-3	July 28, 2000	October 10, 2000	Wetted Cable Activities
3.1.16-4	July 28, 2000	October 10, 2000	Wetted Cable Activities
3.1.16-5	July 28, 2000	October 10, 2000	Wetted Cable Activities
3.1.17-1	July 28, 2000	October 10, 2000	RPV Monitoring Program
3.1.18-1	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-2	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-3	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-4	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-5	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-6	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-7	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-8	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-9	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.18-10	July 28, 2000	October 10, 2000	Fire Protection Activities
3.1.19-1	July 28, 2000	October 10, 2000	FAC Program
3.1.19-2	July 28, 2000	October 10, 2000	FAC Program
3.1.19-3	July 28, 2000	October 10, 2000	FAC Program
3.1.19-4	July 28, 2000	October 10, 2000	FAC Program
3.1.19-5	July 28, 2000	October 10, 2000	FAC Program

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1.19-6	July 28, 2000	October 10, 2000	FAC Program
3.1.19-7	July 28, 2000	October 10, 2000	FAC Program
3.1.19-8	July 28, 2000	October 10, 2000	FAC Program
3.1.20-1	July 28, 2000	October 10, 2000	Protective Coatings Program
3.1.20-2	July 28, 2000	October 10, 2000	Protective Coatings Program
3.1.20-3	July 28, 2000	October 10, 2000	Protective Coatings Program
3.1.21-1	July 28, 2000	October 10, 2000	Equipment and Piping Insulation Monitoring Program
3.1.21-2	July 28, 2000	October 10, 2000	Equipment and Piping Insulation Monitoring Program
3.1.21-3	July 28, 2000	October 10, 2000	Equipment and Piping Insulation Monitoring Program
3.1.21-4	July 28, 2000	October 10, 2000	Equipment and Piping Insulation Monitoring Program
3.1.21-5	July 28, 2000	October 10, 2000	Equipment and Piping Insulation Monitoring Program
3.1.22-1	July 28, 2000	October 10, 2000	Structural Monitoring Program
3.1.22-2	July 28, 2000	October 10, 2000	Structural Monitoring Program
3.1.22-3	July 28, 2000	October 10, 2000	Structural Monitoring Program
3.1.22-4	July 28, 2000	October 10, 2000	Structural Monitoring Program
3.1.22-5	July 28, 2000	October 10, 2000	Structural Monitoring Program
3.1.23-1	July 28, 2000	October 10, 2000	Galvanic Susceptibility Inspections
3.1.23-2	July 28, 2000	October 10, 2000	Galvanic Susceptibility Inspections
3.1.23-3	July 28, 2000	October 10, 2000	Galvanic Susceptibility Inspections
3.1.23-4	July 28, 2000	October 10, 2000	Galvanic Susceptibility Inspections
3.1.23-5	July 28, 2000	October 10, 2000	Galvanic Susceptibility Inspections
3.1.24-1	July 28, 2000	October 10, 2000	Treated Water Systems Piping Inspections
3.1.24-2	July 28, 2000	October 10, 2000	Treated Water Systems Piping Inspections
3.1.24-3	July 28, 2000	October 10, 2000	Treated Water Systems Piping Inspections



RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1.24-4	July 28, 2000	October 10, 2000	Treated Water Systems Piping Inspections
3.1.24-5	July 28, 2000	October 10, 2000	Treated Water Systems Piping Inspections
3.1.24-6	July 28, 2000	October 10, 2000	Treated Water Systems Piping Inspections
3.1.25-1	July 28, 2000	October 10, 2000	Gas Systems Components Inspections
3.1.25-2	July 28, 2000	October 10, 2000	Gas Systems Components Inspections
3.1.25-3	July 28, 2000	October 10, 2000	Gas Systems Components Inspections
3.1.25-4	July 28, 2000	October 10, 2000	Gas Systems Components Inspections
3.1.26-1	July 28, 2000	October 10, 2000	CST Inspections
3.1.26-2	July 28, 2000	October 10, 2000	CST Inspections
3.1.26-3	July 28, 2000	October 10, 2000	CST Inspections
3.1.27-1	July 28, 2000	October 10, 2000	Passive Components Inspection Activities
3.1.27-2	July 28, 2000	October 10, 2000	Passive Components Inspection Activities
3.1.28-1	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program
3.1.28-2	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program
3.1.28-3	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program
3.1.28-4	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program
3.1.28-5	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program
3.1.28-6	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program
3.1.28-7	July 28, 2000	October 10, 2000	RHR Heat Exchanger Augmented Inspection and Testing Program

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.1.29-1	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-2	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-3	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-4	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-5	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-6	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-7	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-8	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-9	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-10	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-11	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-12	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.1.29-13	July 28, 2000	October 10, 2000	Torus Submerged Components Inspection Program
3.2.3.1-1	July 28, 2000	October 10, 2000	RCS
3.2.3.1-2	July 28, 2000	October 10, 2000	RCS
3.2.3.2-1	July 28, 2000	October 10, 2000	RCS
3.2.3.2-2	July 28, 2000	October 10, 2000	RCS
3.2.3.2-3	July 28, 2000	October 10, 2000	RCS
3.2.3.2-4	July 28, 2000	October 10, 2000	RCS
3.2.3.2-5	July 28, 2000	October 10, 2000	RCS
3.2.3.2-6	July 28, 2000	October 10, 2000	RCS
3.2.3.2-7	July 28, 2000	October 10, 2000	RCS

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.2.3.2-8	July 28, 2000	October 10, 2000	RCS
3.3-CS-1	July 28, 2000	October 10, 2000	Core Spray
3.3-HPCI-1	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-2	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-3	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-4	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-5	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-6	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-7	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-8	July 28, 2000	October 10, 2000	HPCI
3.3-HPCI-9	July 28, 2000	October 10, 2000	HPCI
3.3-HR-1	July 28, 2000	October 10, 2000	Post-LOCA Hydrogen Recombiner System
3.3-P&I-1	July 28, 2000	October 10, 2000	Primary Containment Purge & Inerting System
3.3-P&I-2	July 28, 2000	October 10, 2000	Primary Containment Purge & Inerting System
3.3-RCIC-1	July 28, 2000	October 10, 2000	RCIC System
3.3-RCIC-2	July 28, 2000	October 10, 2000	RCIC System
3.3-RCIC-3	July 28, 2000	October 10, 2000	RCIC System
3.3-RCIC-4	July 28, 2000	October 10, 2000	RCIC System
3.3-RCIC-5	July 28, 2000	October 10, 2000	RCIC System
3.3-RCIC-6	July 28, 2000	October 10, 2000	RCIC System
3.3-RCIC-7	July 28, 2000	October 10, 2000	RCIC System
3.3-SGTS-1	July 28, 2000	October 10, 2000	Standby Gas Treatment System
3.3-SGTS-2	July 28, 2000	October 10, 2000	Standby Gas Treatment System
3.4-1	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-2	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-3	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-4	July 28, 2000	October 10, 2000	Auxiliary Systems - General

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.4-5	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-6	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-7	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-8	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-9	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-10	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-11	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-12	July 28, 2000	October 10, 2000	Auxiliary Systems - General
3.4-CBHVC-1	July 28, 2000	October 10, 2000	Control Building HVAC
3.4-CHE-1	July 28, 2000	October 10, 2000	Cranes, Hoists, and Elevators
3.4-COND-1	July 28, 2000	October 10, 2000	Condensate Transfer and Storage System
3.4-CRD-1	July 28, 2000	October 10, 2000	Control Rod Drive System
3.4-CRD-2	July 28, 2000	October 10, 2000	Control Rod Drive System
3.4-DPS-1	July 28, 2000	October 10, 2000	Drywell Pneumatic Systems
3.4-FPS-1	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-2	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-3	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-4	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-5	July 28, 2000	October 10, 2000	
3.4-FPS-6	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-7	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-8	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-9	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-10	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-11	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-12	July 28, 2000	October 10, 2000	Fire Protection System
3.4-FPS-13	July 28, 2000	October 10, 2000	Fire Protection System
3.4-IA-1	July 28, 2000	October 10, 2000	Instrument Air System

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.4-IN-1	July 28, 2000	October 10, 2000	Insulation System
3.4-PSW-1	July 28, 2000	October 10, 2000	Plant Service Water System
3.4-PSW-2	July 28, 2000	October 10, 2000	Plant Service Water System
3.4-PSW-3	July 28, 2000	October 10, 2000	Plant Service Water System
3.4-PSW-4	July 28, 2000	October 10, 2000	Plant Service Water System
3.4-PSW-5	July 28, 2000	October 10, 2000	Plant Service Water System
3.4-PSW-6	July 28, 2000	October 10, 2000	Plant Service Water System
3.4-RBHVAC-1	July 28, 2000	October 10, 2000	Reactor Building HVAC
3.4-RE-1	July 28, 2000	October 10, 2000	Refueling Equipment
3.4-RE-2	July 28, 2000	October 10, 2000	Refueling Equipment
3.4-RE-3	July 28, 2000	October 10, 2000	Refueling Equipment
3.4-SS-1	July 28, 2000	October 10, 2000	Sampling System
3.4-TSR-1	July 28, 2000	October 10, 2000	Traveling Water Screens/Trash Racks System
3.4-TSR-2	July 28, 2000	October 10, 2000	Traveling Water Screens/Trash Racks System
3.5-EHC-1	July 28, 2000	October 10, 2000	Electro-Hydraulic Control System
3.5-MC-1	July 28, 2000	October 10, 2000	Main Condenser
3.5-MC-2	July 28, 2000	October 10, 2000	Main Condenser
3.6-1	July 28, 2000	October 10, 2000	Structures
3.6-2	July 28, 2000	October 10, 2000	Structures
3.6-3	July 28, 2000	October 10, 2000	Structures
3.6-4	July 28, 2000	October 10, 2000	Structures
3.6-5	July 28, 2000	October 10, 2000	Structures
3.6-6	July 28, 2000	October 10, 2000	Structures
3.6-7	July 28, 2000	October 10, 2000	Structures
3.6-8	July 28, 2000	October 10, 2000	Structures
3.6-9	July 28, 2000	October 10, 2000	Structures
3.6-10	July 28, 2000	October 10, 2000	Structures
3.6-11	July 28, 2000	October 10, 2000	Structures

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.6-12	July 28, 2000	October 10, 2000	Structures
3.6-13	July 28, 2000	October 10, 2000	Structures
3.6-14	July 28, 2000	October 10, 2000	Structures
3.6-15	July 28, 2000	October 10, 2000	Structures
3.6-16	July 28, 2000	October 10, 2000	Structures
3.6-17	July 28, 2000	October 10, 2000	Structures
3.6-18	July 28, 2000	October 10, 2000	Structures
3.6-19	July 28, 2000	October 10, 2000	Structures
3.6-20	July 28, 2000	October 10, 2000	Structures
3.6-21	July 28, 2000	October 10, 2000	Structures
3.6-22	July 28, 2000	October 10, 2000	Structures
3.6-23	July 28, 2000	October 10, 2000	Structures
3.6-24	July 28, 2000	October 10, 2000	Structures
3.6-25	July 28, 2000	October 10, 2000	Structures
3.6-26	July 28, 2000	October 10, 2000	Structures
3.6-27	July 28, 2000	October 10, 2000	Structures
3.6-28	July 28, 2000	October 10, 2000	Structures
3.6-29	July 28, 2000	October 10, 2000	Structures
3.6-30	July 28, 2000	October 10, 2000	Structures
3.6-31	July 28, 2000	October 10, 2000	Structures
3.6-32	July 28, 2000	October 10, 2000	Structures
3.6-33	July 28, 2000	October 10, 2000	Structures
3.6-34	July 28, 2000	October 10, 2000	Structures
3.6-35	July 28, 2000	October 10, 2000	Structures
3.6-36	July 28, 2000	October 10, 2000	Structures
3.6-37	July 28, 2000	October 10, 2000	Structures
3.6-38	July 28, 2000	October 10, 2000	Structures
3.6-39	July 28, 2000	October 10, 2000	Structures
3.6-40	July 28, 2000	October 10, 2000	Structures

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
3.6-41	July 28, 2000	October 10, 2000	Structures
3.6-42	July 28, 2000	October 10, 2000	Structures
3.6-43	July 28, 2000	October 10, 2000	Structures
3.6-44	July 28, 2000	October 10, 2000	Structures
3.6-45	July 28, 2000	October 10, 2000	Structures
3.6-46	July 28, 2000	October 10, 2000	Structures
3.6-47	July 28, 2000	October 10, 2000	Structures
3.6-48	July 28, 2000	October 10, 2000	Structures
3.6-49	July 28, 2000	October 10, 2000	Structures
3.6-50	July 28, 2000	October 10, 2000	Structures
3.6-51	July 28, 2000	October 10, 2000	Structures
3.6-52	July 28, 2000	October 10, 2000	Structures
3.6-53	July 28, 2000	October 10, 2000	Structures
3.6-54	July 28, 2000	October 10, 2000	Structures
3.6-55	July 28, 2000	October 10, 2000	Structures
4.1-1	July 28, 2000	October 10, 2000	TLAA
4.1-2	July 28, 2000	October 10, 2000	TLAA
4.2-1	July 28, 2000	October 10, 2000	TLAA
4.2-2	July 28, 2000	October 10, 2000	TLAA
4.2-3	July 28, 2000	October 10, 2000	TLAA
4.2-4	July 28, 2000	October 10, 2000	TLAA
4.4-1	July 28, 2000	October 10, 2000	TLAA
4.4-2	July 28, 2000	October 10, 2000	TLAA
4.5-1	July 28, 2000	October 10, 2000	TLAA
4.5-2	July 28, 2000	October 10, 2000	TLAA
4.5-3	July 28, 2000	October 10, 2000	TLAA
4.5-4	July 28, 2000	October 10, 2000	TLAA
4.6-1	July 28, 2000	October 10, 2000	TLAA
4.6-2	July 28, 2000	October 10, 2000	TLAA

RAI	ISSUANCE DATE	RESPONSE DATE	SUBJECT
4.6-3	July 28, 2000	October 10, 2000	TLAA
4.6-4	July 28, 2000	October 10, 2000	TLAA
4.7-1	July 28, 2000	October 10, 2000	TLAA