MEMORANDUM TO:

Bruce S. Mallett, Director

Division of Reactor Safety

David B. Matthews, Director

Division of Regulatory Improvement Programs

Office of Nuclear Reactor Regulation

FROM:

Luis A. Reyes, Regional Administrator

Samuel J. Collins, Director

Office of Nuclear Reactor Regulation

SUBJECT:

OCONEE LICENSE RENEWAL INSPECTION

Attached is the final version of the Oconee Nuclear Station License Renewal Inspection Plan. The plan, which was developed jointly by NRR and Region II, is hereby approved. You are directed to use this plan to prepare and conduct the license renewal inspections at Oconee.

(Original signed by S. J. Collins)

Date 3/30/99

Samuel J. Collins, Director

Office of Nuclear Reactor Regulation

(Original signed by L. A. Reyes)

Date: 3/29/99

Luis A. Reyes, Regional Administrator

Region II

Attachment:

Oconee Nuclear Station

License Renewal Inspection Plan

*FOR PREVIOUS CONCURRENCE SEE ATTACHED COPY

OFFICE RII:DRS RII:DRS RII:DRS NRR NRR SIGNATURE NAME CJULIAN* VMCCREE* BMALLETT* LPLISCO* **RPRATO** CGRIM DATE 3/ /99 3/30/99 3/20/99 COPY? YES YES NO YES NO YES (YES

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UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II
ATLANTA FEDERAL CENTER
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ATLANTA, GEORGIA 30303-3415

March 30, 1999

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Samuel J. Collins, Director

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Luis A. Reyes, Regional Agministrator

Region II

Date: 3/30/99

Date: 3/29/99

Attachment:

Oconee Nuclear Station

License Renewal Inspection Plan

Oconee Nuclear Station (Lightse Renewal)

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OCONEE NUCLEAR STATION LICENSE RENEWAL INSPECTION PLAN

I. PURPOSE

This inspection plan provides Region II with guidance for implementing Inspection Manual Chapter 2515 and 2516 requirements for the verification of information, programs and activities relating to 10 CFR Part 54 (herein referred to as "the rule") and the Oconee Nuclear Station (ONS) license renewal programs and activities. This plan defines the scope of the inspections planned to verify that the ONS's license renewal program is in compliance with the requirements of the rule, and is consistent with Duke Energy Corporation's (DEC) license renewal application (LRA) and the staff's safety evaluation of DEC's LRA. This plan also provides guidance for inspection scheduling, inspector training, inspection activities, resource requirements, and resource allocation.

The DEC LRA identified the systems, structures, and commodity groups that it determined were within the scope of the rule. Attachment 1 contains a list of those specific systems, structures, and commodity groups, aging effects and aging management programs that may be selected for inspection based on risk significance, uniqueness to ONS, and current issues. However, the scope and depth of inspections in these areas will vary. Attachment 2 is a list of acronyms applicable to the DEC inspection activities for license renewal. Attachment 3 contains a list of reference materials.

II. OBJECTIVES

The overall objective of this plan is to provide guidance for inspecting the implementation, and effectiveness of the programs and activities associated with DEC's license renewal program to verify that there is reasonable assurance that the effects of aging will be adequately managed such that the intended function(s) of structures and components (SC)¹ requiring an aging management review will be maintained consistent with the current licensing basis (CLB) during the period of extended operation. To accomplish this objective, the inspection team will perform the following inspection activities on a sample of systems, structures and commodity groups within the scope of this inspection plan (refer to Attachment 1), to verify, with reasonable assurance, that the requirements of 10 CFR Part 54 have been fulfilled:

1. Verify that the scoping (10 CFR 54.4) and screening (10 CFR 54.21[a][1]) activities implemented by DEC are consistent with the rule, DEC's methodology submitted for staff review, the staff's safety evaluation of that methodology, the guidance provided in DG-1047, "Standard Format and Content for the Application to Renew Nuclear Power Plant Operating Licenses," dated August 1996, and documented staff positions, as applicable.

Reference footnote in SOC on page 60 FR 22462 for clarification between SSC and SC.

- Verify that the aging management programs were implemented consistent with the rule, the LRA, the staff's safety evaluation report (SER) of the LRA, and NRC approved guidance including the Statements of Consideration (SOC), DG 1047, and documented staff positions.
- 3. Verify that there is reasonable assurance that the demonstration provided by DEC is consistent with the rule, LRA, staff's SER, and the results from implementing the aging management programs at ONS.
- 4. Verify that the information and documentation required by, or otherwise necessary to document compliance with the provisions of the rule are maintained in an auditable and retrievable form.

III. INSPECTION REQUIREMENTS

Each inspector will receive basic license renewal inspection program (LRIP) training. In addition, the inspection team will be provided team training on the ONS LRA and the staff's safety evaluation of that application. Training will be given as part of the inspection preparation effort.

The acceptance criteria for the staff verification activities will be derived from the rule, the description of the programs and activities as documented in the LRA, and the documented review performed by the staff in the safety evaluation report. To verify the completeness of the scope selected by DEC, the staff will review five systems and three structures not identified as being within the scope of the rule by the applicant against the scoping criteria under 10 CFR 54.4(a) to identify potential omissions from the scope selected by the applicant. In addition, the staff will perform system walk-downs and review maintenance history to confirm that applicable aging effects have been identified in the LRA.

Consistent with the Commission guidance in the SOC, probabilistic methods may be used as a supplemental tool to assess the relative importance of structures and components that are subject to an aging management review by drawing attention to specific vulnerabilities (e.g., results of an IPE or IPEEE). Probabilistic insights may assist in developing an approach for aging management adequacy. However, probabilistic insights alone will not be an acceptable basis for concluding that, for those structures and components subject to an aging management review, the effects of aging will be adequately managed in the period of extended operation.

IV. INSPECTION ACTIVITIES

The LRIP will be implemented at ONS, prior to the approval of its LRA to verify that DEC meets the requirements of the rule and has implemented license renewal programs and activities consistent with the rule, their application, and the staff's safety evaluation

Inspection Procedure (IP) 71002, "License Renewal Inspections," will be the primary procedure used to inspect DEC's implementation of the requirements of the rule. Various other IPs will be used to verify the implementation of the individual aging management programs. This inspection plan will be used to define the inspection activities and the implementation of these activities.

This inspection plan will be reviewed and approved by NRR and the Region II Regional Administrator prior to implementation. Substantive changes to the approved inspection plan will be approved by the Director, Division of Reactor Safety, Region II and the Director, License Renewal Project Directorate, NRR (PDLR) or his designee. After inspection activities begin, changes to the inspection plan will be approved and documented as an attachment to the original plan.

The basic scope of the ONS inspection will be performed on the systems, structures, and commodity groups identified in Attachment 1 attached to this plan. The selection of these systems, structures, and commodity groups is based on risk significance, uniqueness to ONS, and current issues.

- 1. The inspection team will verify that DEC implemented the scoping methodology consistent with the rule, and DEC's methodology as detailed in their License Renewal Application submitted July 6, 1998. The inspection team will also inspect five systems and three structures not included within the scope of the rule by DEC's process to verify that there is reasonable assurance that all systems and structures that meet the criteria under 10 CFR 54.4 were identified. The inspection team will use *IP-71002*, § 02.02.a and § 03.02.a for this inspection.
- 2. The implementation of screening activities required under 10 CFR 54.21(a)(1) will be inspected by reviewing the evaluation boundaries, intended functions, and active/passive or short/long-lived characteristics of the structures and components (SC) included within the scope of DEC's aging management review for the systems, structures and commodity groups listed in Attachment 1: These inspection activities will be implemented to verify that DEC's process was implemented consistent with the rule, DEC's methodology submitted for staff review, and the staff's safety evaluation of that methodology. The inspection team will also walkdown the systems and structures, as available, to identify any observable inconsistencies with the scoping and screening activities. The inspection team will use *IP-71002*, § 02.02.b.1 and § 03.02.b.1 for this inspection.

For more information on the screening activities refer to the following reference:

system/structural-level intended function(s) refer to 10 CFR 54.4(a), 54.4(b), 54.21(a)(1)(i), 60FR22467, and NEI 95-10,§3.2;

IP-71002, § 02.02.b.4, § 03.02.b.4, and existing IMC 2515 inspection procedures for this inspection activity.

6. An inspection of the documentation for the programs and activities relating to the scoping, screening, aging management, and demonstrations will be used to verify that the information and documentation (Refer to 10 CFR 54.21 and 54.37, 60FR22482, and NEI 95-10, § 3.3, § 4.4, § 5.3, and § 6.0) required by, or otherwise necessary to document compliance with the provisions of the rule are maintained in an auditable and retrievable form. The inspection team will use *IP-71002* for this inspection activity.

V. PLANNED INSPECTIONS

The ONS license renewal inspection activities will be implemented through three site-inspections.

1. First Inspection - The first inspection will primarily consist of an inspection of the scoping and screening process described above (IV.1 and IV.2) to verify that these processes have been implemented consistent with the rule, DEC's methodology, and the staff's safety evaluation of DEC's methodology. This inspection must be performed after the staff's safety evaluation of the scoping and screening methodology is complete. In addition, this inspection will be used to verify that there is reasonable assurance that the implementation of DEC's scoping and screening processes have identified the systems, structures, and components, requiring an aging management review consistent with the requirements of the rule.

The first inspection includes the following:

- a. Prior to the inspection preparation week, the Team Leader will review this inspection plan, DEC's methodology, the staff's safety evaluations of the methodology, and the LRA to assign various inspection activities to individual team members for detailed review during inspection preparation. The goal for assigning these inspection activities is to allow each team member to become familiar with the scope of the inspection, and for each team member to prepare for their role in the inspection process.
- b. During preparation week, the Team will review the necessary documentation. For the systems, structures, and commodity groups assigned to each inspection, the inspector will prepare to verify that DEC implemented its methodology consistent with the rule, the methodology in its LRA, the staff's safety evaluation of that methodology, NRC approved guidance, and documented staff positions. The inspector will review the system/structural-level intended functions identified by DEC to verify that they fulfill the requirements and criteria of the rule and the applicable guidance documents. The inspectors will familiarize themselves with the systems and structures assigned and their evaluation boundaries to identify any components or structural components not included within the evaluation boundary that may fulfill the intended functions relating to the scoping criteria

As part of the above specified inspection activities for each of the three inspections, the inspection team will verify that the information and documentation required by, or otherwise necessary to document compliance with, the provisions of the rule are being maintained in an auditable and retrievable form wherever applicable throughout the inspection process.

INSPECTION RESOURCES:

The inspection resources will consist of the following positions and skills for the DEC inspections:

- 1. Inspectors positions
 - 1 Team leader
 - 3 Regional based inspectors
 - 1 Inspector with site-specific knowledge
 - 1 or more support staff from program office
- 2. Inspectors skills the inspection team needs a cross-section of skills including mechanical, material, civil and electrical engineering skills

The scope of the third inspection (and correspondingly, the resources) will be determined by the open issues, if any, from the previous inspection activities. Therefore the third inspection team will be made up of 3 to 6 inspectors with the skills determined necessary after the third inspection.

- 3. Resource Recommendations:
 - 4 weeks of inspection
 - 5-7 inspectors per inspection
 - 1 week preparation per inspection
 - 1 week on-site inspection
 - 3 days report writing for each inspector
 - 1 week for team leader to finalize the inspection report
 - 1 week processing inspection report
 - At least one inspection performed during an outage to allow the inspectors to inspect the material condition of the SCs within the scope of the rule
- Resource Estimates:

Inspection Resources -

6 inspectors x 4 inspection weeks x 2.6 weeks per inspection (1 week prep +1 week inspecting +3 days report writing) = 62.4 weeks

Training Resources - In addition to inspection activities, members of the inspection team will be trained on the rule and inspection procedures prior to beginning inspection activities.

2 PDLR staff members + 6 inspectors x 2 days/sessions = 16 person-days

Systems, Structures & Commodity Groups

Systems, Structures & Commodity Groups	Aging Effects	Aging Management Programs
Reactor Building (Containment) Structural Components	Loss of Material	Containment Inservice Inspection Plan (Examination Categories E-A, E-B, E-C, E-D, E-F, E-G, E-P and L-B)
Section 3.3 & Table 3.3-1)		Coating Program
	·	Containment Leak Rate Testing Program
	Cracking	Containment Inservice Inspection Plan (Examination Category L-A for Concrete)
	Change in Material Properties	Containment Inservice Inspection Plan (Examination Category L-A for Concrete)
Reactor Coolant System Components & Class 1	Loss of Material	Boric Acid Wastage Surveillance Program
Supports (Section 3.4 & Table 3.4-1)		Chemistry Control Program
Table 3.4-1)		Rx Coolant System Operational Leakage Monitoring
		Steam Generator Tube Surveillance Program
		Alloy 600 Aging Management Program
		Inservice Inspection Plan (Examination Categories B-G-1, B-H, B-N-1, B-N-2,B-N-3, B-Q, B-P, C-H, and F-A)
		Inspection Program for Civil Engineering Structures and Components
	Cracking	Inservice Inspection Plan (Examination Categories B-G-1, B-A, B-B, B-D, B-E, B-F, B-H, B-J, B-L-1, B-L-2, B-N-1, B-N-2, B-N-3, B-O, B-P, B-Q, C-A, C-B, C-C, and C-H)
		Rx Coolant System Operational Leakage Monitoring
		Chemistry Control Program
		Alloy 600 Aging Management Program
		Small Bore Piping Inspections
	;	CRDM Nozzle and Other Vessel Closure Penetrations Inspection Program
		TLAA
	•	Program to Inspect the HPI Connections to the RCS
		Pressurizer Examinations
		Steam Generator Tube Surveillance Program
		Rx Vessel Internals Aging Management Program
	Loss of Preload / Closure Integrity	Inservice Inspection Plan (Examination Categories B-G-1, B-G-2, B-N-3, B-O, B-P, and C-H)
·	·	Rx Coolant System Operational Leakage Monitoring
		Rx Vessel Internals Aging Management Program
	Reduction of Fracture Toughness (CASS)	Chemistry Control Program

Systems, Structures & Commodity Groups	Aging Effects	Aging Management Programs
	Reduction of Fracture Toughness (CASS)	Chemistry Control Program
		Inservice Inspection Plan (Examination Categories B-L-1, B-L-2, B-M-2, B-N-3, and B-P)
		Rx Vessel Integrity Program
	Change in Material Properties of Lubrite Pads	OTSG Upper Lateral Support Inspections
•	Mechanical Distortion	Inservice Inspection Plan (Examination Categories B-Q and B-P)
	•	Rx Coolant System Operational Leakage Monitoring
		Steam Generator Tube Surveillance Program
Reactor Building Spray	Loss of Material	Chemistry Control Program
System (Section 3.5.3.2 & Table 3.5-1)		Reactor Building Spray System Inspection
	Cracking	Chemistry Control Program
		Reactor Building Spray System Inspection
Containment Isolation	Loss of Material	Chemistry Control Program
Systems - Component Cooling System (Section 3.5.4.2 & Table 3.5-2)	Cracking	Treated Water Systems Stainless Steel Inspection (one time inspection/verification)
Emergency Core Cooling System (ECCS) - Core Flood	Loss of Material	Chemistry Control Program
System (Section 3.5.5.1 & Table 3.5-3)	Cracking	Chemistry Control Program
Emergency Core Cooling	Loss of Material	Chemistry Control Program
System (ECCS) - High Pressure Injection System	Cracking	Chemistry Control Program
(Section 3.5.5.2 & Table 3.5-3)		Rx Coolant System Operational Leakage Monitoring
Auxiliary Systems - Low	Loss of Material	Service Water Piping Corrosion Program
Pressure Service Water System (Section 3.5.6.5 &	·	System Performance Testing Activities
Table 3.5-4)		Preventive Maintenance Activities
		Galvanic Susceptibility Inspection
		Chemistry Control Program
	Fouling	Service Water Piping Corrosion Program
		System Performance Testing Activities
Steam & Power Conversion Systems - Emergency	Loss of Material	Chemistry Control Program
Feedwater System (Section 3.5.9.3 & Table 3.5-7)	Cracking	Chemistry Control Program
Steam & Power Conversion	Loss of Material	Chemistry Control Program
Systems - Feedwater System (Section 3.5.9.4 & Table 3.5-7)		Piping Erosion/Corrosion Program

Systems, Structures & Commodity Groups	Aging Effects	Aging Management Programs
	Cracking	Chemistry Control Program
Steam & Power Conversion	Loss of Material	Keowee Air and Gas System Inspection
Systems - Keowee Hydroelectric Station		Keowee Oil Sampling Program
(Section 3.5.13 & Table 3.5-11)		Service Water Piping Inspection Program
		Fire Protection Program
		Galvanic Susceptibility Inspection
		Cast Iron Selective Leaching Inspection
	·	Preventive Maintenance Activities
		Service Water Piping Corrosion Program
	Fouling	Service Water Piping Inspection Program
		Fire Protection Program
		Fire Protection Program - Piping
		System Performance Testing Activities
		Preventive Maintenance Activities
Standby Shutdown Facility - Reactor Coolant Makeup System (Section 3.5.14.5 & Table 3.5-12)	Loss of Material Cracking	Chemistry Control Program
Electrical Components - Bus (Section 3.6.2 & Table 3.6-1)	None Identified ²	None Required
Electrical Components - Insulated Cables & Connections (Section 3.6.3 & Table 3.6-1)	None Identified ²	None Required
Structural Components -	Cracking	Inspection Program for Civil Engineering Structures and Components
Auxiliary Building (Section 3.7.3 & Table 3.7-1)		Chemistry Control Program
		Fire Protection Program
	Loss of Material	Inspection Program for Civil Engineering Structures and Components
,	·	Battery Rack Inspections
	·	Crane Inspection Program
		Inservice Inspection Plan (Category F-A)
		Chemistry Control Program

Inspection Team should during the Scoping Inspection pay extra attention to Electrical SCs. They were omitted during Scoping and Screening process

Systems, Structures & Commodity Groups	Aging Effects	Aging Management Programs
		Fire Protection Program
	Separation	Fire Protection Program
Structural Components -	Loss of Material	Inspection Program for Civil Engineering Structures and Components
Intake Structure (Section 3.7.5 & Table 3.7-3)		Inservice Inspection Plan (Category F-A)
Structural Components - Keowee Structures (Section	Cracking	Inspection Program for Civil Engineering Structures & Components
3.7.6 & Table 3.7-4)	Loss of Material	Penstock Inspection
		FERC Five Year Inspection
		Duke Power Five-Year Underwater Inspection of Hydroelectric Dams and Appurtenances
		Inspection Program for Civil Engineering Structures & Components
		Crane Inspection
	·	Battery Rack Inspection
		Inservice Inspection Plan (Category F-A)
	Change in Material Properties	Duke Power Five-Year Underwater Inspection of Hydroelectric Dams and Appurtenances
		Penstock Inspection
		Inspection Program for Civil Engineering Structures & Components
		FERC Five Year Inspection
Structural Components - Standby Shutdown Facility	Loss of Material	Inspection Program for Civil Engineering Structures & Components
(SSF) (Section 3.7.8 & Table 3.7-6)	·	Battery Rack Inspections
Table 5.7-0)		Crane Inspection Program
		Inservice Inspection Plan (Examination Category F-A)
	Cracking	Inspection Program for Civil Engineering Structures & Components

Aging Effects

Aging Effects	Systems, Structures, Commodity Groups	Aging Management Programs
Loss of Material	Reactor Building (Containment) Structural Components	Alloy 600 Aging Management Program
	Reactor Coolant System Components & Class 1 Supports	Battery Rack Inspections Boric Acid Wastage Surveillance Program
	Containment Isolation Systems -	Cast Iron Selective Leaching Inspection
•	Component Cooling System	Chemistry Control Program
	Emergency Core Cooling System (ECCS) - Core Flood System	Coating Program
	Emergency Core Cooling System (ECCS) - High Pressure Injection System	Containment Inservice Inspection Plan (Examination Categories E-A, E-B, E-C, E-D, E-F, E-G, E-P and L-B)
	Auxiliary Systems - Low Pressure	Containment Leak Rate Testing Program
	Service Water System	Crane Inspection Program
	Steam & Power Conversion Systems - Emergency Feedwater System	Duke Power Five-Year Underwater Inspection of Hydroelectric Dams and Appurtenances
	Steam & Power Conversion Systems - Feedwater System	FERC Five Year Inspection
	Steam & Power Conversion Systems - Keowee Hydroelectric Station	Fire Protection Program
		Galvanic Susceptibility Inspection
	Standby Shutdown Facility - Reactor Coolant Makeup System	Chemistry Control Program
	Structural Components - Auxiliary Building	Inservice Inspection Plan (Examination Categories B-G-1, B-H, B-N-1, B-N-2,B-N-3, B-Q, B-P, C-H, and F-A)
	Structural Components - Intake	Inservice Inspection Plan (Category F-A)
	Structure	Inspection Program for Civil Engineering Structures and Components
	Structural Components - Keowee Structures	Keowee Air and Gas System Inspection
	Structural Components - Standby Shutdown Facility (SSF) Reactor Building Spray	Keowee Oil Sampling Program
,		Penstock Inspection
		Piping Erosion/Corrosion Program
		Preventive Maintenance Activities
		Reactor Building Spray System Inspection
		Rx Coolant System Operational Leakage Monitoring
		Service Water Piping Corrosion Program
		Service Water Piping Inspection Program
		Steam Generator Tube Surveillance Program
		System Performance Testing Activities

Aging Effects	Systems, Structures, Commodity Groups	Aging Management Programs
Cracking	Reactor Building (Containment) Structural Components	Alloy 600 Aging Management Program
	Reactor Coolant System Components & Class 1 Supports	Chemistry Control Program Containment Inservice Inspection Plan (Examination Category L-A for Concrete)
	Containment Isolation Systems - Component Cooling System	CRDM Nozzle and Other Vessel Closure Penetrations
	Emergency Core Cooling System (ECCS) - Core Flood System	Fire Protection Program
· .	Emergency Core Cooling System (ECCS) - High Pressure Injection System	Inservice Inspection Plan (Examination Categories B-G-1, B-A, B-B, B-D, B-E, B-F, B-H, B-J, B-L-1, B-L-2, B-N-1, B-N-2, B-N-3, B-O, B-P, B-Q, C-A, C-B, C-C, and C-H)
,		Inspection Program
	Steam & Power Conversion Systems - Emergency Feedwater System	Inspection Program for Civil Engineering Structures and Components
	Steam & Power Conversion Systems - Feedwater System	Pressurizer Examinations
	Standby Shutdown Facility - Reactor Coolant Makeup System	Chemistry Control Program
		Program to Inspect the HPI Connections to the RCS
	Structural Components - Auxiliary Building	Reactor Building Spray System Inspection
	Structural Components - Keowee Structures	Rx Coolant System Operational Leakage Monitoring
	Structural Components Standby	Rx Vessel Internals Aging Management Program
	Structural Components - Standby Shutdown Facility (SSF)	Small Bore Piping Inspections
	Reactor Building Spray	Steam Generator Tube Surveillance Program
		TLAA
		Treated Water Systems Stainless Steel Inspection (one time inspection/verification)
Loss of Preload / Closure Integrity	Reactor Coolant System Components & Class 1 Supports	Inservice Inspection Plan (Examination Categories B-G-1, B-G-2, B-N-3, B-O, B-P, and C-H)
		Rx Coolant System Operational Leakage Monitoring
		Rx Vessel Internals Aging Management Program
Reduction of Fracture Toughness (CASS)	Reactor Coolant System Components & Class 1 Supports	Chemistry Control Program
-g (eee)	a same i supporto	Inservice Inspection Plan (Examination Categories B-L-1, B-L-2, B-M-2, B-N-3, and B-P)
		Rx Vessel Integrity Program

Aging Effects	Systems, Structures, Commodity Groups	Aging Management Programs
Change in Material Properties	Reactor Building (Containment) Structural Components	Containment Inservice Inspection Plan (Examination Category L-A for Concrete)
	Structural Components - Keowee Structures	Duke Power Five-Year Underwater Inspection of Hydroelectric Dams and Appurtenances
		FERC Five Year Inspection
		Inspection Program for Civil Engineering Structures and Components
		Penstock Inspection
Mechanical Distortion	Reactor Coolant System Components & Class 1 Supports	Inservice Inspection Plan (Examination Categories B-Q and B-P)
		Rx Coolant System Operational Leakage Monitoring
		Steam Generator Tube Surveillance Program
Change in Material Properties of Lubrite Pads	Reactor Coolant System Components & Class 1 Supports	OTSG Upper Lateral Support Inspections
Fouling	Auxiliary Systems - Low Pressure	Fire Protection Program
	Service Water System	Fire Protection Program - Piping
	Steam & Power Conversion Systems - Keowee Hydroelectric Station	Preventive Maintenance Activities
·		Service Water Piping Corrosion Program
		Service Water Piping Inspection Program
		System Performance Testing Activities
Separation	Structural Components - Auxiliary Building	Fire Protection Program
None Identified	Electrical Components - Bus	None Required
	Electrical Components -Insulated Cables & Connections	

List of Acronyms

AMR Aging Management Review

ARDM Age-Related Degradation Mechanism ATWS Anticipated Transient Without Scram

CCW Component Cooling Water CLB Current Licensing Basis

CRDM Control Rod Drive Mechanism

DBE Design Basis Event

DEC Duke Energy Corporation

ECCS Emergency Core Cooling System

EQ Environmental Qualification

FERC Federal Energy Regulatory Commission

FP Fire Protection

FSAR Final Safety Analysis Report HP High Pressure Injection

HVAC Heating, Ventilation and Air Conditioning

IPA Integrated Plant Assessment

IP Inspection Procedure

IR Issue Report LR License Renewal

LRA License Renewal Application

LRIP License Renewal Inspection Program

NSR Non-Safety-Related
ONS Oconee Nuclear Station

OTSG Once Through Steam Generator

PAM Post-Accident Monitoring
PB Pressure Boundary
RCS Reactor Coolant System

Rx Reactor

SBO Station Blackout

SC Structures and Components
SER Safety Evaluation Report
SOC Statements of Consideration

SR Safety-Related

SS System and Structure
SSF Standby Shutdown Facility

SSC Systems, Structures and Components

SSCG Systems, Structures and Commodity Groups

TLAA Time-Limited Aging Analysis

UFSAR .Updated Final Safety Analysis Report

Reference Material

- The License Renewal Rule promulgated in Title 10, Part 54, of the *Code of Federal Regulations* revised May 8, 1995.
- The statement of consideration that accompanied the License Renewal Rule as published in the *Federal Register*, May 8, 1995.
- Draft Regulatory Guide DG-1047, entitled "Standard Format and Content for Applications to Renew Nuclear Power Plant Operating Licenses," issued August 1996.
- The "Industry Guidelines for Implementing the Requirements of 10 CFR Part 54 The License Renewal Rule," issued March 1996.
- The Inspection Manual Chapter 2516
- Inspection Procedures 71002
- ONS License Renewal Application, submitted July 6, 1998.
- The staff's Safety Evaluation relating to the ONS LRA.