

# CATEGORY 1

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AUTH. NAME      AUTHOR AFFILIATION  
TUCKMAN, M.S.      Duke Power Co.  
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*See License Application*

SUBJECT: Submits application for Renewed Operating Licenses for Oconee Nuclear Station, Units 1, 2 & 3. Duke also requests that operating licenses be extended for twenty years beyond current expiration dates.

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**M. S. Tuckman**  
Executive Vice President  
Nuclear Generation

July 6, 1998

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

Subject: **Oconee Nuclear Station, Units 1, 2, and 3**  
**Docket Nos. 50-269, 50-270, and 50-287**  
**Application for Renewed Operating Licenses**

Dear Sir:

Pursuant to U.S. Nuclear Regulatory Commission (NRC) regulations set forth in 10 CFR Parts 50, 51 and 54, Duke Energy Corporation (Duke) hereby applies for the renewal of the operating licenses for the Oconee Nuclear Station (Oconee), Units 1, 2, and 3, issued under Section 104 of the Atomic Energy Act of 1954, as amended. Duke requests that these operating licenses be extended for twenty (20) years beyond their current expiration dates. For Oconee Unit 1 (DPR-38), renewal would extend the operating license from midnight February 6, 2013, until midnight February 6, 2033. For Oconee Unit 2 (DPR-47), renewal would extend the license from midnight October 6, 2013, until midnight October 6, 2033. For Oconee Unit 3 (DPR-55), license renewal would extend the operating license from midnight July 19, 2014, until midnight July 19, 2034.

Duke's Application for Renewed Operating Licenses, Oconee Nuclear Station, Units 1, 2, and 3 (the Application), is herein submitted to the NRC.<sup>1</sup> In accordance with NRC license renewal regulations, this Application satisfies applicable requirements in 10 CFR §§ 54.17, 54.19, 54.21, 54.22, and 54.23. Duke also has reviewed and addressed other relevant filing requirements found in 10 CFR Part 2, Subpart A, and 10 CFR §§ 50.4, 50.30, and 50.33.

Specifically, in satisfaction of 10 CFR § 54.19(a) and (b), Enclosure 1 to this submittal letter contains the general information required by Section 50.33(a) through (e), (h), and (i), and addresses possible conforming changes to the standard indemnity agreement, 10 CFR § 140.92, Appendix B, to account for the expiration term of the proposed renewed licenses.

<sup>1</sup> In accordance with NRC requirements in 10 CFR §§ 54.17 and 50.4, Duke is submitting an original and thirteen (13) copies of this Application. A copy is also being provided to the NRC Region II Administrator. Twenty-six (26) copies of the Applicant's Environmental Report, Operating License Renewal Stage, are being provided to the NRC, pursuant to 10 CFR § 51.55.

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Summary information concerning Duke license renewal activities over the past several years is provided in Enclosure 2.

Duke believes that this Application, taken in its entirety, contains information and analyses sufficient to support the Commission findings required by 10 CFR § 54.29. Specifically, as required by Part 54, actions have been identified that have been or will be taken to manage the effects of aging on the structures and components subject to aging management review, such that their intended functions will be maintained consistent with the current licensing basis during Oconee's renewed term of operation. Any changes made to the Oconee current licensing basis will be made in accordance with the Atomic Energy Act of 1954, as amended, and Commission regulations.<sup>2</sup> In addition, the demonstration resulting from the identification and evaluation of time-limited aging analyses and exemptions also has been made, in satisfaction of Section 54.21(c). Finally, the Environmental Report satisfies applicable provisions in 10 CFR Part 51, Subpart A.

### Overview of Application

The Oconee license renewal Application, which consists of this submittal letter and four attached exhibits, contains the information required by applicable Commission regulations in 10 CFR Part 54. This information is presented in a manner designed to allow the NRC to make the findings required by 10 CFR § 54.29 in a timely and efficient manner. In brief, Exhibit A to the Application addresses the license renewal requirements set forth in 10 CFR § 54.21(a) and (c). Exhibit B addresses the requirements of Section 54.21(d). Exhibit C addresses the requirements of Section 54.22, and Exhibit D addresses the environmental requirements specified in Section 54.23 and Part 51. Each exhibit is summarily described below.

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<sup>2</sup> In accordance with 10 CFR § 54.21(b), changes to the Oconee licensing basis that materially affect the content of this Application will be identified by Duke at least annually during the NRC's review of the Application. Duke currently intends to provide the first update to the Application in July 1999.

- **Oconee Application for Renewed Operating Licenses, Exhibit A - License Renewal - Technical Information (OLRP-1001)**

Exhibit A to the Application is the Oconee Nuclear Station License Renewal Technical Information (hereafter OLRP-1001 or Exhibit A). It contains the technical information required by 10 CFR § 54.21(a) and (c), including an Integrated Plant Assessment (IPA) and supporting information, demonstrations, and justifications. Exhibit A also contains an evaluation of time-limited aging analyses.

The IPA identifies the structures and components within the scope of license renewal that are subject to aging management review, the aging effects to which these structures and components are subject, and new and existing plant-specific programs and activities that manage applicable aging effects. In addition, the IPA contains a demonstration of the effectiveness of existing aging management programs during the renewed term of plant operation. For these new and existing aging management programs, appropriate changes to the UFSAR have been identified. (See Exhibit B to the Application.) Also, Duke has provided certain flow diagrams<sup>3</sup> to assist the NRC Staff in its review and an analysis of applicable Generic Safety Issues.

In summary, the IPA demonstrates that the effects of aging on long-lived passive structures and components will be adequately managed such that their intended functions will be maintained, consistent with the current licensing basis, during the renewed term of plant operation.

In making the requisite demonstration for Reactor Coolant System components, Duke has incorporated by reference<sup>4</sup> several Babcock & Wilcox Owners Group (B&WOG) topical reports applicable to the Oconee Reactor Coolant System. Submitted to the NRC in 1996 and 1997, several of these B&WOG reports remain under staff review. Similarly, in 1996, Duke submitted a report to the NRC on the Reactor Building (Containment), sections of which are under active review by the Staff. This report also is incorporated by reference into the Application. Therefore, final disposition of the

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<sup>3</sup> By letter dated July 1, 1998, Duke provided to the NRC "License Renewal Flow Diagrams, OLRP-1002, Oconee Nuclear Station, Units 1, 2, and 3, Volume I" (OLRP-1002). Volume I of OLRP-1002 contains the first of three sets of Oconee and Keowee mechanical system license renewal flow diagrams that have been marked to indicate the evaluation boundaries for license renewal. Volumes II and III, which will contain the remaining marked license renewal flow diagrams, are in the process of being prepared, checked, and approved. Upon completion of these activities, the documents will be promptly submitted. OLRP-1002 is hereby incorporated by reference into the Application, pursuant to 10 CFR § 54.17(e).

<sup>4</sup> 10 CFR § 54.17(e).

B&WOG and Duke reports is of paramount importance to the technical analysis and conclusions set forth in Exhibit A.

The second area of technical review set forth in Exhibit A is the identification and evaluation of plant-specific time-limited aging analyses and exemptions, which were performed consistent with the guidance provided in NEI 95-10, Revision 0. With respect to 10 CFR § 50.12 exemptions, a review of the Oconee docket identified no exemptions granted on the basis of a time-limited aging analysis, as defined in Section 54.3. At the same time, Duke identified the Oconee-specific time-limited aging analyses. As required by 10 CFR § 54.21(c)(1), Duke has demonstrated either that: (1) these analyses remain valid for the period of extended operation; (2) the analyses have been projected to the end of the renewal term of operation; or (3) the effects of aging on the intended function will be adequately managed for the period of extended operation. For these time-limited aging analyses, appropriate changes to the UFSAR have been identified. (See Exhibit B to the Application.)

- **Oconee Application for Renewed Operating Licenses, Exhibit B - Updated Final Safety Analysis Report (UFSAR) Supplement**

In satisfaction of Section 54.21(d), Exhibit B to the Application contains an Updated Final Safety Analysis Report (UFSAR) Supplement which provides a summary description of the programs and activities for managing the effects of aging and the evaluation of time-limited aging analyses for the renewed term of operation. The information in Exhibit B is derived from the technical information set forth in Exhibit A, and required by Section 54.21(a) and (c). Table 18-1 of Exhibit B provides a summary listing of the specific programs, activities and time-limited aging analyses required for license renewal that are included in the UFSAR Supplement. The UFSAR Supplement for license renewal summarizes all of the commitments contained in the Application that are applicable for license renewal.

The UFSAR Supplement contained in Exhibit B will be incorporated into the Oconee UFSAR following issuance of the Oconee renewed operating licenses. Duke requests a "grace period" to accomplish this task and to make the necessary conforming changes. This grace period would extend from the date of issuance of the renewed operating licenses to the next scheduled update of the Oconee UFSAR. The duration of this grace period will be not less than six months nor greater than eighteen months. Upon inclusion of the Supplement into the Oconee UFSAR, any changes to the description of programs and activities will be made in accordance with the change process in effect at the time of the change.

- **Oconee Application for Renewed Operating Licenses, Exhibit C -  
Technical Specification Changes**

In satisfaction of Section 54.22, Exhibit C to the Application contains changes and additions to the Oconee Technical Specifications necessary to manage the effects of aging during the renewed term of operation, and provides the necessary accompanying justification. Oconee's Improved Technical Specifications (ITS) were considered in the preparation of this Application. ITS for Oconee are currently under review by the NRC staff. In preparing this Application, Duke anticipated that ITS would be in effect during the period of extended operation. Duke has identified only one change to the Oconee ITS that may be required. Currently, Oconee ITS 5.5.6 refers to Regulatory Guide 1.35, Revision 3, 1989, as the basis for the required tendon surveillance program. Oconee ITS SR 3.6.1.3 (surveillance requirement) requires the verification of containment structural integrity in accordance with ITS 5.5.6.

The Oconee Integrated Plant Assessment for Containment credits the inservice inspection requirements of ASME Section XI, Subsections IWE and IWL, creating what appears to be a short-term conflict between 10 CFR § 50.55a and the Oconee ITS. NRC reactor licensees are required by regulation to fully implement the IWE/IWL requirements under Section 50.55a by September 9, 2001. In this regard, it would be beneficial for the Commission to issue generic regulatory guidance in the near future to permit changes to be made to affected Technical Specifications before this date, in order to eliminate the potential for conflicting regulatory requirements.

- **Oconee Application for Renewed Operating Licenses - Exhibit D  
Environmental Report - Operating License Renewal Stage**

In satisfaction of Section 54.23, Exhibit D to the Application contains Duke's Environmental Report - Operating License Renewal Stage (ER). The ER complies with applicable provisions of 10 CFR Part 51, Subpart A. Through an analysis of the potential environmental impacts associated with the renewal of the Oconee operating licenses, the ER is designed to assist the NRC staff in preparing the Oconee-specific Environmental Impact Statement Supplement for license renewal. Based on the evaluations in the ER, Duke has concluded that there are no significant environmental impacts associated with Oconee license renewal.

One environmental issue that must be addressed under existing NRC regulations is the generic and cumulative impacts of the transportation of high-level radioactive waste (HLW) and spent fuel in the vicinity of a HLW repository site. See 10 CFR § 51.53(c)(3)(ii)(M). The Commission has stated that, for those renewal applications filed before the completion of the planned rulemaking to amend 10 CFR Part 51, no discussion of this issue is required in the plant-specific Environmental Report, unless a "delay due to the generic rulemaking might affect the licensing process for a license renewal." (SRM M970612) Although Duke's license renewal application for Oconee is being filed before completion of the rulemaking, it would be premature to conclude that a delay in the completion of the rulemaking will affect the licensing process for Oconee license renewal. Accordingly, Duke has not addressed the existing requirements of Section 51.53(c)(3)(ii)(M) in this ER. Moreover, the NRC has recently indicated its plans to complete the Part 51 rulemaking by August 1999, which should not delay the Oconee license renewal process.<sup>5</sup>

#### **Partial Waiver of 10 CFR Part 170 Fees**

In a February 2, 1996 letter to the NRC, Duke requested a waiver of NRC fees under 10 CFR Part 170 in connection with the staff's review of the plant-specific technical information required for the Oconee license renewal application. By letter to Duke dated August 2, 1996, the NRC announced its decision to grant a partial fee waiver under 10 CFR § 171.21, footnote 4, criterion 2, on the basis that part of the agency's review of the technical information would be "beneficial in formulating its standard review plan guidance." That portion of the staff's review of Oconee license renewal information (estimated at approximately 50%) that supports the development of generic Standard Review Plan guidance is to be charged to the generic TAC. It is Duke's understanding that only the remaining portion (approximately 50%) will be charged to Oconee's plant-specific Part 170 fees.

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<sup>5</sup> See "Supplemental Analysis: Cumulative Environmental Impacts of Spent Nuclear Fuel Transport in the Vicinity of the Proposed Yucca Mountain High-Level Waste Repository Attributable to License Renewal, and Implications of Higher-Burn-Up Fuel for the Conclusions in Table S-4," April 1998, Division of Reactor Program Management, Office of Nuclear Reactor Regulation.

Conclusion

Duke has worked with the nuclear industry, the Commission, and its staff for a number of years to develop a stable and predictable license renewal process. This Application reflects the results of a considerable investment of time on behalf of Duke, the NRC, and the industry. Duke appreciates the collective efforts devoted to this Application to date. Our goal is to facilitate a thorough, yet efficient, review of this Application so as to avoid unnecessary delay in the issuance of the requested renewed operating licenses. We stand ready to provide whatever assistance and information is necessary to achieve this goal. In this regard, Duke would like to propose periodic meetings between its management and the NRC's License Renewal Project Directorate, with the goal of establishing an expeditious process for resolving issues arising from the license renewal application review process.

Very truly yours,

A handwritten signature in black ink that reads "M. S. Tuckman". The signature is written in a cursive style with a large, sweeping initial "M".

M. S. Tuckman



**Affidavit**

M. S. Tuckman, being duly sworn, states that he is Executive Vice President, Nuclear Generation Department, Duke Energy Corporation; that he is authorized on the part of said Corporation to sign and file with the U. S. Nuclear Regulatory Commission this Application to Renew the Facility Operating Licenses of Oconee Nuclear Station, DPR-38, DPR-47, and DPR-55; and that all the statements and matters set forth herein are true and correct to the best of his knowledge and belief. To the extent that these statements are not based on his personal knowledge, they are based on information provided by Duke employees and/or consultants. Such information has been reviewed in accordance with Duke Energy Corporation practice and is believed to be reliable.

M. S. Tuckman

M. S. Tuckman, Executive Vice President  
Duke Energy Corporation

Subscribed and sworn to before me this 6<sup>th</sup> day of July 1998.

Mary F. Nelms

Notary Public

My Commission Expires:

JAN 22, 2001



**ENCLOSURE 1**

In compliance with 10 CFR § 54.19(a) and (b), the following general information (derived from 10 CFR § 50.33(a) through (e), (h), (i) ) is provided:

**Name of Applicant**

**DUKE ENERGY CORPORATION**

**Address of Applicant**

**422 South Church Street  
Charlotte, North Carolina 28202-1904**

**Description of Business of Applicant**

Duke Energy Corporation (Duke or the Corporation) is a global energy company with more than \$20 billion in assets which conducts business in four principal areas of operations:

*Electric Operations*

The Corporation is engaged in the generation, transmission, distribution and sale of electricity at retail and wholesale in the central portion of North Carolina and the western portion of South Carolina, comprising the area in both states known as the Piedmont Carolinas. The service territory of the Corporation's Duke Power Unit, approximately two-thirds of which lies in North Carolina, covers approximately 20,000 square miles and includes a number of cities, of which the largest are Charlotte, Greensboro, Winston-Salem and Durham in North Carolina and Greenville and Spartanburg in South Carolina. Duke Power supplies electric service to approximately two million residential, commercial and industrial customers in over 200 cities, towns and unincorporated communities. As of June 29, 1998, the Corporation owned 37 generating facilities with a total capacity of 18,000 MW.<sup>6</sup> In addition, the Corporation's Nantahala Power & Light Company subsidiary owns 11 hydroelectric generating facilities with total capacity of 100 MW. Nantahala serves approximately 56,000 customers in 5 counties in western North Carolina. The Federal Energy Regulatory Commission has approved the merger of Nantahala into the Corporation, and said merger is expected to be completed in August, 1998.

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<sup>6</sup> A group of rural cooperatives and municipal power systems owns 87.5% of the Catawba Nuclear Station, and the Corporation owns 12.5% of that station. Duke operates the Catawba Nuclear Station.

### *Energy Transmission*

The Corporation provides electric transmission service for wholesale transactions through its electric transmission system pursuant to its Open Access Transmission Tariff, as required by the Federal Energy Regulatory Commission. The Corporation also is engaged in the interstate transportation and storage of natural gas. Through subsidiaries, it owns and operates one of the nation's largest gas transmission networks, delivering approximately twelve (12) percent of the natural gas consumed in the United States. This fully interconnected, 37,500-mile system can receive natural gas from most major North American producing regions for delivery to markets throughout the Mid-Atlantic, New England and Midwest states.

### *Energy Services*

The subsidiaries of the Corporation's Energy Services group offer a broad variety of worldwide services in energy asset monetization, engineering, construction, liquids, gas and electric marketing, risk management, natural gas liquids shipping, gas processing and transport, ownership and operation of merchant electric generating facilities, and "inside-the-fence" power generation.

### *Diversified Operations*

Through the subsidiaries of its Diversified Operations group, the Corporation conducts real estate management, forestry, and commercial and residential real estate development operations, develops and manages communications systems, including fiber optic and wireless digital network services, and provides franchised water service to 20,000 customers in parts of North Carolina and South Carolina.

### **Legal Status and Organization**

Duke Energy Corporation is a public utility incorporated under the laws of the State of North Carolina. Duke's principal office is located in Charlotte, North Carolina at the address stated above. The principal location where Duke does business is North Carolina.

Duke Energy Corporation is not owned, controlled, or dominated by an alien, a foreign corporation, or foreign government. Duke Energy Corporation makes this application on its own behalf and is not acting as an agent or representative of any other person.

**General Information**

The names and business addresses of Duke Energy Corporation's directors and principal officers, all of whom are citizens of the United States, are as follows:

**Directors:**

Paul M. Anderson  
Duke Energy Corporation  
P.O. Box 1642  
Houston, Texas 77251-1642

G. Alex Bernhardt, Sr.  
Bernhardt Furniture Company  
P.O. Box 740  
Lenoir, North Carolina 28645

Robert J. Brown  
B & C Associates, Inc.  
P.O. Box 2636  
High Point, North Carolina 27261

William A. Coley  
Duke Energy Corporation  
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Charlotte, NC 28201-1244

William T. Esrey  
Sprint Corporation  
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Kansas City, Missouri 64112

Ann Maynard Gray  
1262 Rockrimmon  
Stamford, Connecticut 06903

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Houston, Texas 77251-1642

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Mars Hill, North Carolina 28754

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Charlotte, North Carolina 28232

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Russell M. Robinson, II  
Robinson, Bradshaw & Hinson, P.A.  
101 North Tryon Street, Suite 1900  
Charlotte, North Carolina 28246-1900

**Principal Officers:**

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Richard J. Osborne, Executive Vice President and Chief Financial Officer  
Duke Energy Corporation  
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Charlotte, North Carolina 28201-1244

Richard B. Priory, Chairman of the Board and Chief Executive Officer  
Duke Energy Corporation  
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Charlotte, North Carolina 28201-1244

Ruth G. Shaw, Executive Vice President and Chief Administrative Officer  
Duke Energy Corporation  
P.O. Box 1244  
Charlotte, North Carolina 28201-1244

Michael S. Tuckman, Executive Vice President, Nuclear Generation  
Duke Energy Corporation  
P.O. Box 1244  
Charlotte, North Carolina 28201-1244

**Class and Period of License Sought**

Duke requests renewal of the NRC Section 104 operating licenses for Oconee Nuclear Station, Units 1, 2, and 3 (license numbers DPR-38, DPR-47, and DPR-55, respectively) for a period of twenty (20) years beyond the expiration of the current licenses. For Oconee Unit 1 (DPR-38), renewal would extend the operating license from midnight February 6, 2013, until midnight February 6, 2033. For Oconee Unit 2 (DPR-47), renewal would extend the license from midnight October 6, 2013, until midnight October 6, 2033. For Oconee Unit 3 (DPR-55), license renewal would extend the operating license from midnight July 19, 2014, until midnight July 19, 2034.

The use to which the Oconee facility will be put during the renewal period is the continued generation of electric power.

This Application includes a request for renewal of those NRC source material, special nuclear material, and byproduct material licenses that are currently subsumed or combined with the current operating licenses.

Duke does not propose to construct or alter any production or utilization facility in connection with this renewal Application.

### **Conforming Changes to Standard Indemnity Agreement**

10 CFR § 54.19(b) requires that license renewal applications include "conforming changes to the standard indemnity agreement, 10 CFR 140.92, Appendix B, to account for the expiration term of the proposed renewed license." The current indemnity agreement for Oconee states in Article VII that the agreement shall terminate at the time of expiration of that license specified in Item 3 of the Attachment to the agreement. Item 3 of the Attachment to the indemnity agreement, as revised by Amendment No. 9, lists six license numbers. Duke requests that conforming changes be made to Article VII of the indemnity agreement, and/or Item 3 of the Attachment to that agreement, specifying the extension of agreement until the expiration dates of the renewed Oconee operating licenses as set forth in this Application. Thus, license number DPR-38 would be extended to expire at midnight, February 6, 2033; DPR-47 would be extended to expire at midnight, October 6, 2033; and DPR-55 would be extended to expire at midnight, July 19, 2034. In addition, should the license numbers be changed upon issuance of the renewed licenses, Duke requests that conforming changes be made to Item 3 of the Attachment, and any other sections of the indemnity agreement as appropriate.

### **Regulatory Agencies with Jurisdiction**

The North Carolina Utilities Commission and the Public Service Commission of South Carolina currently have jurisdiction over the rates and services provided by Duke's utility operations at Oconee. The addresses of these state commissions are as follows:

North Carolina Utilities Commission  
P.O. Box 29510  
Raleigh, North Carolina 27626-0510

Public Service Commission of South Carolina  
P.O. Drawer 1169  
Columbia, South Carolina 29211

### **Local News Publications**

The trade and news publications which circulate in the area surrounding Oconee, and which are considered appropriate to give reasonable notice of the renewal application to those municipalities, private utilities, public bodies, and cooperatives that might have a potential interest in the facility, include the following:



THE CHARLOTTE OBSERVER  
600 South Tryon Street  
Charlotte, North Carolina 28202

THE GREENVILLE NEWS  
305 South Main Street  
P.O. Box 1689  
Greenville, South Carolina 29602

THE ANDERSON INDEPENDENT  
1000 Williamston Road  
P.O. Box 2507  
Anderson, South Carolina 29622

THE MESSENGER  
210 West First Street  
P.O. Box 547  
Seneca, South Carolina 29679

**Communications**

All communications to the applicant pertaining to this Application should be sent to the following:

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Charlotte, N. C. 28201-1006

Robert L. Gill, Jr.  
Duke Energy Corporation  
Mail Stop EC-12R  
P.O. Box 1006  
Charlotte, N. C. 28201-1006

William R. McCollum, Jr.  
Vice President, Oconee Nuclear Site  
Duke Energy Corporation  
P.O. Box 1439  
Seneca, S. C. 27679

In addition, it is requested that copies be sent to Duke's Office of General Counsel and Washington, DC counsel as follows:

Paul R. Newton, Esq.  
Duke Energy Corporation  
422 South Church Street  
Mail Code  
Charlotte, N. C. 28201-1006

J. Michael McGarry, III, Esq.  
Anne W. Cottingham, Esq.  
Winston & Strawn  
1400 L Street, NW  
Washington, DC 20005

## ENCLOSURE 2

Duke's license renewal efforts date back well over a decade. In the late 1980s, Duke actively supported efforts by the Electric Power Research Institute and the Nuclear Utility Management and Resource Council (now the Nuclear Energy Institute) to develop and submit to the NRC several technical industry reports. These reports have been reviewed extensively, and their content is reflected in the NRC's draft Standard Review Plan for License Renewal. Several of these reports have been used in the preparation of the technical information portion of this Application. In addition, Duke has supported the efforts of the United States Department of Energy in the development of several Aging Management Guidelines for Commercial Nuclear Power Plants.

In 1992, the B&W Owners Group (B&WOG) informed the Commission of its plans to develop a series of generic topical reports that could be used by individual owners in plant-specific applications for renewed operating licenses. It ultimately developed several topical reports, whose purpose was to demonstrate that the aging effects for Reactor Coolant System components are adequately managed for the period of extended operation under a renewed license. Duke actively participated in this B&WOG effort. The following B&WOG topical reports, applicable to the Oconee Reactor Coolant System, have been submitted to the NRC:

- BAW-2241P, *Fluence and Uncertainty Methodologies* (submitted May 14, 1997; under review by the NRC as of June 1998)
- BAW-2243A, *Demonstration of the Management of Aging Effects for the Reactor Coolant System Piping* (approved by the NRC March 21, 1996)
- BAW-2244A, *Demonstration of the Management of Aging Effects for the Pressurizer* (approved by NRC November 26, 1997)
- BAW-2248, *Demonstration of the Management of Aging Effects for the Reactor Vessel Internals* (submitted July 29, 1997; under review by the NRC as of June 1998)
- BAW-2251, *Demonstration of the Management of Aging Effects for the Reactor Vessel* (submitted June 27, 1996; under review by the NRC as of June 1998)

Each of the above B&WOG reports is hereby incorporated by reference into the Oconee Application, pursuant to the provisions of 10 CFR § 54.17(e).

In February 1996, Duke notified the NRC of its plan to foster the development of a predictable and stable license renewal process by submitting for NRC review and approval a report containing the technical information required by 10 CFR § 54.21(a) through (c). Consistent with this plan, Duke prepared and submitted a report to the NRC on the Reactor Building (Containment) in 1996. (Sections of this report remain under active review by the NRC.) As of June 1998, Duke has responded to NRC staff requests for additional information concerning the report, hosted a site visit by NRC staff officials in April 1998, and revised containment-related portions of the report to incorporate additional information.

Duke believes that sufficient information has now been provided to allow the NRC to complete its review of the Oconee Containment Report for license renewal. This report, augmented significantly with additional license renewal technical information, comprises OLRP-1001, Exhibit A to this Application. Thus, parts of OLRP-1001 have previously been reviewed by the staff.

In addition to this interaction with the NRC on Oconee Containment issues, Duke met several times with the NRC staff in 1997 to provide examples of technical and environmental information that would be included in a license renewal application. These meetings, and the resulting staff feedback, were useful in the development of the format and content of this Application and the Environmental Report for license renewal. Duke appreciates the efforts of the NRC in this regard, particularly since no formal NRC Regulatory Guide or Standard Review Plan was available in final form as of the submittal date of this Application.

Oconee Nuclear Station  
Application for Renewed Operating Licenses  
July 6, 1998

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Add : PDLR/Huffman, S.	A	1 Ltr 1 Encl
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Add: NRR/DE/EMEB	I	1 Ltr 1 Encl
Add: NRR/DE/EMCB	I	1 Ltr 1 Encl
Add: NRR/DE/EELB	I	1 Ltr 1 Encl
Add: NRR/DSSA/SPLB	I	1 Ltr 1 Encl
Add: NRR/DSSA/SRXB	I	1 Ltr 1 Encl
Add: NRR/DSSA/SCSB	I	1 Ltr 1 Encl
Add: OGC/HDS2	I	1 Ltr 1 Encl
Add: ACRS	I	1 Ltr 1 Encl
Add: NRC PDR	X	1 Ltr 1 Encl
Add: NRR/DIR	I	1 Ltr 1 Encl
Add: File Center 01	I	1 Ltr 1 Encl

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A037 as of

7/17/98