

FROM: Duke Power Co.  
Charlotte, N.C.  
A.C. Thies

DATE OF DOCUMENT:

9-15-69

DATE RECEIVED

9-15-69

NO.:

230

LTR.

MEMO:

REPORT:

OTHER:

X

TO:

Morris

ORIG.:

3

CC:

OTHER:

72 conf'd cys

ACTION NECESSARY ☐

NO ACTION NECESSARY ☐

CONCURRENCE ☐

COMMENT ☐

DATE ANSWERED:

BY:

CLASSIF:

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POST OFFICE

REG. NO.:

FILE CODE:

50-269-50-270-50-287

DESCRIPTION: (Must Be Unclassified)

Ltr trans the following:

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9-16-69

W/8 cys for action

DISTRIBUTION:

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AEC FOR

Ltr only 50-270-287

Ltr only 50-270-287

Compliance (2)

OGC

Dromerick (2)

H.Price & Staff

Collins (2)

Dube/Levine

Case

Boyd

DTIE (Laughlin)

Skovholt

NSIC (Buchanan)

D.Thompson

AEC Hdqtrs Lib. J-004

Rosen

Moore

Howe

Do Not Remove 2910

FEL

ENCLOSURES:

AMDT # 8, not. 9-9-69 consisting of..  
revised page 4 for Amdt # 3 (Cost  
Estimate) (3 signed & 19 conf'd cys)  
REVISION 1, to FSAREpt (72) cys

See 50-269

REMARKS:

(18) cys holding for ACRS

ACKNOWLEDGED

U.S. ATOMIC ENERGY COMMISSION

MAIL CONTROL FORM FORM AEC-3265  
(8-60)

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(8-60)

DUKE POWER COMPANY  
POWER BUILDING  
422 SOUTH CHURCH STREET, CHARLOTTE, N. C.

A. C. THIES  
VICE PRESIDENT  
PRODUCTION AND OPERATION

P. O. Box 2178  
28201

September 15, 1969



Dr. Peter Morris, Director  
Division of Reactor Licensing  
Atomic Energy Commission  
Washington, D. C. 20545

Re: Oconee Units 1, 2, & 3  
Docket Nos. 50-269, -270, and -287

Dear Dr. Morris:

Duke Power Company is filing herewith Amendment No. 8 to its Application for Licenses for the Oconee Nuclear Station, which is under construction pursuant to provisional construction permits CPPR-33, -34, and -35 issued by the Commission on November 6, 1967. This filing includes three (3) signed original copies of the Amendment, nineteen (19) conformed copies of revised cost estimate for the Oconee Nuclear Station, which was originally filed as page 4 of Amendment No. 3, and seventy (70) copies of Revision No. 1 to the Oconee Final Safety Analysis Report, which was filed as Amendment No. 7 on June 2, 1969.

This Amendment also incorporates by reference, as part of our license application, the following Babcock & Wilcox Topical Reports which have been submitted to you by Babcock & Wilcox:

<u>B&amp;W Topical Report No.</u>	<u>Date</u>	<u>Title</u>
BAW-10001	August, 1969	"In-Core Instrumentation Test-Program"
BAW-10006	June, 1969	"Reactor Vessel Material Surveillance Program"
BAW-10007	June, 1969	"Control Rod Drive System Test Program"
BAW-10008--Part 1	June, 1969	"Reactor Internals Stress and Deflection Due to LOCA and Maximum Hypothetical Earthquake"
BAW-10010--Part 1	August, 1969	"Stability Margin for Xenon Oscillations - Modal Analysis"

Dr. Peter Morris, Director  
Atomic Energy Commission  
Page 2  
September 15, 1969

B&W  
Topical Report  
No.

Date

Title

BAW-10014	August, 1969	"Analysis of Sustained Departure From Nucleate Boiling Opera- tion"
BAW-10018	May, 1969	"Analysis of the Structural In- tegrity of the Reactor Vessel Subjected to a Thermal Shock"

This amendment is in a format designed to keep current the application and the Final Safety Analysis Report. For convenient reference, it is suggested that the amendment material be inserted in documents previously filed as follows:

1. Copies of revised page 4 of Amendment No. 3, containing the revised cost estimate for Oconee Nuclear Station, should be placed in the general information section of the twenty-two (22) copies of the application (Serial Nos. 79-100), and the original page 4 removed.
2. Please add the supplementary pages and insert the attached revised pages as replacements for existing pages in the seventy-three (73) copies of the Final Safety Analysis Report (Serial Nos. 1-73), as per the attached tabulation identified as FSAR Revision No. 1.

Sincerely,

s/A. C. Thies

ACT:dpm

Attachments

BEFORE THE  
UNITED STATES ATOMIC ENERGY COMMISSION

IN THE MATTER OF       )  
                              )  
DUKE POWER COMPANY )

DOCKET NOS. 50-269  
              50-270  
              50-287

AMENDMENT NO. 8  
TO  
APPLICATION FOR LICENSES

Duke Power Company, Applicant in the above-captioned proceeding, hereby files Amendment No. 8 to its Application for Licenses.

This Amendment No. 8 consists of the following documents appended hereto and made a part hereof.

1. A revised page 4 to be inserted as a new page 4 in Amendment No. 3 to indicate revised cost estimates for the Oconee Nuclear Station.

2. Revision No. 1 to the Final Safety Analysis Report, which includes new material as appendices 1 C and 5 B, and includes substitution and supplementary pages as indicated to cover various changes and corrections in the Final Safety Analysis Report.

This Amendment also incorporates by reference, as a part of Duke Power Company's License Application, the following Babcock & Wilcox Topical Reports submitted to the Atomic Energy Commission:

<u>B&amp;W Topical Report No.</u>	<u>Date</u>	<u>Title</u>
BAW-10001	August 1969	"In-Core Instrumentation Test Program
BAW-10006	June 1969	"Reactor Vessel Material Surveillance Program"

<u>B&amp;W Topical Report No.</u>	<u>Date</u>	<u>Title</u>
BAW-10007	June 1969	"Control Rod Drive System Test Program"
BAW-10008 Part I	June 1969	"Reactor Internals Stress and Deflection Due to LOCA and Maximum Hypothetical Earthquake"
BAW-10010 Part I	August 1969	"Stability Margin for Xenon Oscillations - Modal Analysis"
BAW-10014	August 1969	"Analysis of Sustained Departure From Nucleate Boiling Operation"
BAW-10018	May 1969	"Analysis of Structural Integrity of the Reactor Vessel Subjected to Thermal Shock"

IN WITNESS WHEREOF, Duke Power Company has caused its name to be hereunto signed by A. C. Thies, its Vice President, and its corporate seal to be hereto affixed by James S. Sease, its Assistant Secretary, this 9th day of September, 1969.

DUKE POWER COMPANY

By /s/ A. C. Thies  
Vice President

ATTEST:

/s/ Jas. S. Sease  
Assistant Secretary

NORTH CAROLINA

MECKLENBURG COUNTY

A. C. THIES, being duly sworn, states that he is Vice President of Duke Power Company; that he is authorized on the part of said Company to sign and file with the Atomic Energy Commission this Amendment No. 8 to its Application and documents appended thereto; that he has read all of the statements contained in such Application and the documents appended thereto and made a part thereof; and that all such statements made and matters set forth therein are true and correct to the best of his knowledge, information and belief.

/s/ A. C. Thies  
A. C. Thies

Subscribed and sworn to before me, a Notary Public in and for the State and County above named, this 9th day of September, 1969.

/s/ Elizabeth A. Trammell  
Notary Public

My Commission Expires:

November 21, 1969

[This page to be inserted as page 4 of Amendment No. 3]

2. Estimated costs of Oconee Nuclear Station are as follows:

\$ 1,379,000	Site Acquisition
278,366,000	Direct Cost of Plant
<u>\$ 279,745,000</u>	Subtotal
10,767,000	Allowance for additional inflation
18,900,000	Engineering, general overheads, and contingencies
1,387,000	Operator training - Capital portion
500,000	Licensing and special administrative burdens
<u>33,662,000</u>	Interest during construction
<u>\$ 344,961,000</u>	Total plant with substation
63,000,000	Initial cores
<u>\$ 407,961,000</u>	Grand Total

No separate breakdown is available of taxes and insurance covered in this cost estimate. This revision to cost estimates is occasioned by the inflation effect on the cost of equipment, labor and materials; increased interest rates; and the cost of items added to meet licensing requirements. Applicant will own spent fuel from the initial core of Unit 3, but not of Units 1 and 2.

3. The first core fuel for each unit will contain the following quantity, enrichment and dollar value (based on current AEC charge rates) of uranium:

<u>Quantity</u> <u>Kg-U</u>	<u>Enrichment</u> <u>Kg-U235</u>	<u>%</u>	<u>AEC Base Charges</u> <u>Dollar Value</u>
20,536	460	2.24	\$ 3,529,727
25,546	631	2.47	5,021,322
34,657	960	2.77	7,940,958
<u>80,739</u>	<u>2,051</u>		<u>\$ 16,492,007</u>