

November 15, 1982

CP 51

DMB 016

DISTRIBUTION
Docket File
 NRC PDR
 L PDR
 ORB#4 Rdg
 DEisenhut
 OELD
 AEOD
 LHarmon-2
 ACRS-10
 TBarnhart-12
 LSchneider
 OGC
 OPA
 DBrinkman
 RDiggs
 ASLAB
 PWagner
 RIngram
 Gray File+4

EBlackwood
Hornstein

Dockets Nos. 50-269, 50-270
and 50-287

Mr. H. B. Tucker
 Vice President - Nuclear
 Production Department
 Duke Power Company
 P. O. Box 33189
 422 South Church Street
 Charlotte, North Carolina 28242

Dear Mr. Tucker:

The Commission has issued the enclosed Amendments Nos. 116, 116, and 113 for Licenses Nos. DPR-38, DPR-47 and DPR-55 for the Oconee Nuclear Station, Units Nos. 1, 2 and 3. These amendments consist of changes to the Station's common Technical Specifications (TSs) in response to your request dated February 3, 1982, as supplemented by letter dated July 23, 1982. The approved changes contain NRC-recommended modifications to your request which were agreed to by members of your staff.

These amendments revise the TS restrictions on burning low-level contaminated oil.

Copies of the Safety Evaluation/Environmental Impact Appraisal and the Notice of Issuance/Negative Declaration are also enclosed.

Sincerely,

Original signed by

Philip C. Wagner, Project Manager
 Operating Reactors Branch #4
 Division of Licensing

8212010185 821115
 PDR ADOCK 05000269
 P PDR

Enclosures:

1. Amendment No. 116 to DPR-38
2. Amendment No. 116 to DPR-47
3. Amendment No. 113 to DPR-55
4. Safety Evaluation/Environmental Impact Appraisal
5. Notice/Negative Declaration

cc w/enclosures:
See next page

*See previous white for concurrences

OFFICE	ORB#4:DL	ORB#4:DL	C-ORB#4:DL	AD:OR:DL	OELD		
SURNAME	RIngram	PWagner;cf*	JStolz*	GLainas*	RRawson*		
DATE	11/5/82	10/28/82	10/28/82	10/28/82	11/5/82		



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D.C. 20555
 November 15, 1982

DISTRIBUTION:
~~Socket File~~
 ORB#4 Rdg
 RIngram

Docket No. 50-269, 50-270
 and 50-287

Docketing and Service Section
 Office of the Secretary of the Commission

SUBJECT: OCONEE NUCLEAR STATION, UNITS NOS. 1, 2 AND 3

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (12) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s); Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).

XX Other: Amendments Nos. 116, 116 and 113.
Referenced documents have been provided PDR.

Division of Licensing, ORB#4
 Office of Nuclear Reactor Regulation

Enclosure:
 As Stated

OFFICE →	ORB#4:DL				
SURNAME →	RIngram, cf				
DATE →	11/17/82				

Duke Power Company

cc w/enclosure(s):

Mr. William L. Porter
Duke Power Company
P. O. Box 33189
422 South Church Street
Charlotte, North Carolina 28242

Office of Intergovernmental Relations
116 West Jones Street
Raleigh, North Carolina 27603

Honorable James M. Phinney
County Supervisor of Oconee County
Walhalla, South Carolina 29621

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission, Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Regional Radiation Representative
EPA Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30308

William T. Orders
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Route 2, Box 610
Seneca, South Carolina 29678

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
Suite 220, 7910 Woodmont Avenue
Bethesda, Maryland 20814

Manager, LIS
NUS Corporation
2536 Countryside Boulevard
Clearwater, Florida 33515

J. Michael McGarry, III, Esq.
DeBevoise & Liberman
1200 17th Street, N.W.
Washington, D. C. 20036



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUKE POWER COMPANY

DOCKET NO. 50-269

OCONEE NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 116
License No. DPR-38

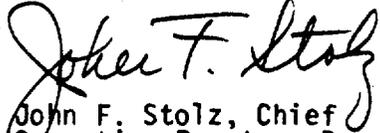
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duke Power Company (the licensee) dated February 3, 1982, as supplemented on July 23, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Facility Operating License No. DPR-38 is hereby amended to read as follows:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 116 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 15, 1982



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUKE POWER COMPANY

DOCKET NO. 50-270

OCONEE NUCLEAR STATION, UNIT NO.2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.116
License No. DPR-47

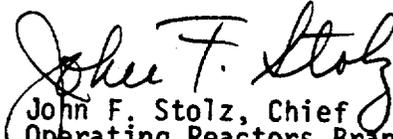
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duke Power Company (the licensee) dated February 3, 1982, as supplemented on July 23, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Facility Operating License No. DPR-47 is hereby amended to read as follows:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No.116 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 15, 1982



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUKE POWER COMPANY

DOCKET NO. 50-287

OCONEE NUCLEAR STATION, UNIT NO.3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 113
License No. DPR-55

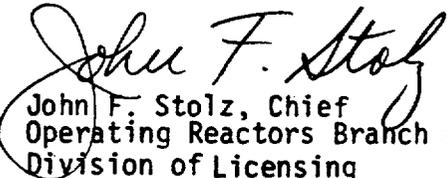
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duke Power Company (the licensee) dated February 3, 1982, as supplemented on July 23, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Facility Operating License No. DPR- 55 is hereby amended to read as follows:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 113 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: November 15, 1982

ATTACHMENTS TO LICENSE AMENDMENTS

AMENDMENT NO. 116 TO DPR-38

AMENDMENT NO. 116 TO DPR-47

AMENDMENT NO. 113 TO DPR-55

DOCKETS NOS. 50-269, 50-270 AND 50-287

Replace page 3.10-3 of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by amendment numbers and contains a vertical line indicating the area of change.

3.10.8 The reactor building shall not be purged unless the following conditions are met:

- a. Reactor building purge shall be through the high efficiency particulate filters and charcoal filters until the activity concentration is below the occupational limit inside the reactor building, at which time bypass may be initiated.
- b. If reactor building is purged, the purge shall be through the high efficiency particulate filters whenever irradiated fuel is being handled or any objects are being handled over irradiated fuel in the reactor building.

3.10.9 Used oil, contaminated by radioactivity, may be incinerated in the Station auxiliary boiler provided releases do not exceed one-tenth of one percent (0.1%) of the limits in Section 3.10, Objective 2 of these specifications.

3.10.10 In addition to the above continuous sampling and monitoring requirements, gaseous radioactive waste sampling and activity analysis shall be performed in accordance with Table 4.1-3. Records shall be maintained and reports of the sampling and analysis results shall be submitted in accordance with Section 6.6 of these specifications.

Bases

It is expected that the releases of radioactive materials and gaseous wastes will be kept within the design objective levels and will not exceed on an instantaneous basis the dose rate limits specified in 10CFR20.

These levels provide reasonable assurance that the resulting annual exposure from noble gases to the whole body or any organ of an individual will not exceed 10 mRem per year. At the same time, the licensee is permitted the flexibility of operation compatible with considerations of health and safety to assure that the public is provided a dependable source of power under unusual operating conditions which may temporarily result in releases higher than the design objective levels but still within the concentration limits specified in 10CFR20. It is expected that using this operational flexibility under unusual operating conditions, the licensee shall exert every effort to keep levels of radioactive materials and gaseous wastes as low as practicable and that annual releases will not exceed a small fraction of the annual average concentration limits specified in 10CFR20. These efforts shall include consideration of meteorological conditions during releases.

The anticipated annual releases from the three Oconee reactor units have been developed taking into account a combination of system variables including fuel failure, primary system leakage, and the performance of radio-isotope removal mechanisms. The values assumed for these variables include the following:



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION AND ENVIRONMENTAL IMPACT APPRAISAL

BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 116 TO FACILITY OPERATING LICENSE NO. DPR-38

AMENDMENT NO. 116 TO FACILITY OPERATING LICENSE NO. DPR-47

AMENDMENT NO. 113 TO FACILITY OPERATING LICENSE NO. DPR-55

DUKE POWER COMPANY

OCONEE NUCLEAR STATION, UNITS NOS. 1, 2 AND 3

DOCKETS NOS. 50-269, 50-270 AND 50-287

Introduction

By letters dated May 19, 1980, and December 17, 1980, Duke Power Company submitted a request to dispose of radioactivity contaminated oil by incineration in the auxiliary boiler at the Oconee Nuclear Station. This request was granted and Technical Specifications were established on March 31, 1981, which detailed the conditions under which oil could be incinerated. In a letter dated February 3, 1982, Duke requested a Technical Specification revision to eliminate the six hours per quarter burn limit. The licensee subsequently modified this request in a July 23, 1982 letter. In this letter the licensee requested that the Technical Specification be modified further to eliminate the limit on the quantity of radioactivity that may be present in a 55-gallon drum that is going to be incinerated, and to eliminate the limit on the rate of incineration such that the concentration in the stack could be greater than 0.5 times the quantity given in Table 2, Column 1 of Appendix B to 10 CFR Part 20. Duke requested that the incineration of contaminated oil be allowed as long as the present limits of Section 3.10 of the Specifications were met.

Discussion

In a letter dated May 19, 1980, Duke requested permission to dispose of contaminated oil by incineration in the auxiliary boiler at the Oconee Nuclear Station. At that time Oconee had 1320 gallons of contaminated oil in storage. The source of this oil was the turbine building sumps and the reactor coolant pumps motor oil. The latter source resulted in 1000 gallons of contaminated oil per reactor every two years. Most of the contaminants are in the form of cesium and cobalt isotopes. On December 17, 1980, a second request was received from Duke which requested approval for the incineration of an additional 935 gallons of oil.

On March 31, 1981, Duke's request was granted and Technical Specifications were established to allow the incineration of oil at the Oconee Station. These specifications (1) limited the amount of time that oil could be incinerated in any one quarter to 6 hours (Specification 3.10.9.c), (2) limited the quantity of radioactivity that could be contained in any 55 gallons of oil to be incinerated to the quantities given in Appendix C to 10 CFR Part 20 (3.10.9.a), and (3) limited the rate of incineration such that the concentration of radioactivity in the stack could not exceed 0.5 times the quantity given in Table 2, Column 1, of Appendix B to 10 CFR Part 20 (3.10.9.b).

On February 3, 1982, Duke requested that the limitation of 6 hours of incineration per quarter be eliminated because the combination of the incineration time limit and the oil feed rate to the auxiliary boiler resulted in an increase in contaminated oil inventory rather than a decrease. The oil feed rate was lower than anticipated because of the load-following characteristics of the auxiliary boiler.

On July 23, 1982, the request to modify Specification 3.10.9 was revised to include deletion of Specifications 3.10.9.a and 3.10.9.b. It was proposed that contaminated oil could be incinerated as long as the limits of Specification 3.10 were met.

In proposing the elimination of Specifications 3.10.9.a and 3.10.9.b, Duke indicated that such a change would not result in a significant radiological impact since the total quantity of radioactivity would be less than 0.5% of the annual limit, and the limitations on feed rate to the boiler ensure that the predetermined release rate will not surpass the Technical Specification limit at the exclusion boundary. In addition, removal of these specifications would allow the inventory of contaminated oil to be reduced.

As of June 16, 1982, the inventory of contaminated oil at the Oconee Station included 6636 gallons containing 1725 uCi of mostly cesium and cobalt isotopes, and 1763 gallons of oily water and sludge containing mostly cesium isotopes that Duke has indicated will require significant processing before any incinerable oil is extracted.

Evaluation and Environmental Appraisal

We calculated the potential doses that could occur as a result of the incineration of contaminated oil, as proposed by Duke. Assuming the maximum concentration in any of the oil is the average for all 6636 gallons and assuming the maximum exposed individual is an infant at the nearest residence located 4.5 miles WNW of the plant, the maximum dose to any organ was calculated to be less than 0.5 mrem/yr based upon an X/Q of 2.9×10^{-8} sec/m³ and a D/Q of

$7.4 \times 10^{-11} \text{ m}^{-2}$. In this calculation, it was assumed that the contaminated oil was incinerated at a rate of 6.0 gpm for the entire year which would result in greater than 3.15 million gallons of oil being incinerated during the year. The pathways which were considered to be present at the nearest residence were the cow milk, ground plane, and inhalation. The concentration of radionuclides found in the most highly contaminated oil was provided by Duke in their July 23, 1982 letter.

The Oconee Technical Specifications contain only a one hour maximum release rate for I-131 and particulate radionuclides with half lives greater than 8 days, and the conditions under which releases from the gaseous waste tanks and reactor building releases must be filtered. No technical specification is included which proposes an annual limit for I-131 and particulates. Specification 3.10 contains Objective 2 which presents a yearly average release rate, however, this is not a technical specification but an objective. The objective is to limit the I-131 and particulate releases such that the dose rate from all three reactors is less than 5 mrem/yr.

In our review, we did not consider it appropriate that the incineration of oil be allowed to be a major contributor to the release of radioiodine and particulates from the Oconee Station, especially in view of the fact that the auxiliary boiler has no means for controlling radioiodine or particulate releases whereas a vessel dedicated to the incineration of radioactive material normally does. Therefore, on September 15, we had a conference

call with Duke to relay this concern and to request that Duke propose an alternative emission limitation. On September 24, another conference call was held and Duke proposed that the effluents from the incineration of contaminated oil be restricted to 0.1% of Objective 2 of Specification 3.10.

A restriction of 0.1% of that value would limit the dose to 5×10^{-3} mrem per year.

As noted above, we calculated the dose contribution from continually burning contaminated oil containing the maximum radioactivity presently in any of the oil and at a feed rate of 6 gpm. Limiting the dose impact to the dose rate of 5×10^{-3} mrem/yr would restrict the volume of contaminated oil that could be incinerated to approximately 6100 gallons per year based upon the assumption that all contaminated oil contains the maximum concentration of radioactivity. We consider this to be an acceptable volume of waste to incinerate and a minimal, and therefore, acceptable impact (0.005 mrem/yr). Therefore, we find the proposed Technical Specification change to Technical Specification 3.10.9, as modified by our telephone conversation with Duke, to be acceptable.

Summary

We have concluded that the proposed modification to Specification 3.10.9 of the Oconee Units Nos. 1, 2 and 3 Technical Specifications, as modified by our comment, is acceptable. We have further concluded that this change represents an insignificant change in the radioactive effluent release limits because the contribution from burning this oil will be less than one-tenth of one percent of the release objective.

Conclusions

On the basis of the foregoing analysis, we have concluded that there will be no significant environmental impact attributed to the proposed action. Having reached this conclusion, we have further concluded that no environmental impact statement for this action need be prepared and that a negative declaration to this effect is appropriate.

We have also concluded, based on the considerations discussed above, that:

(1) because the amendments do not involve a significant increase in the probability or consequences of an accident previously evaluated, do not create the possibility of an accident of a type different from any evaluated previously, and do not involve a significant reduction in a margin of safety, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: November 15, 1982

The following NRC personnel have contributed to this Safety Evaluation and Environmental Impact Appraisal: Philip Wagner, J. Hayes.

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKETS NOS. 50-269, 50-270 AND 50-287DUKE POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSESAND NEGATIVE DECLARATION

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 116, 116 and 113 to Facility Operating Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, issued to Duke Power Company, which revised the Technical Specifications (TSs) for operation of the Oconee Nuclear Station, Units Nos. 1, 2 and 3, located in Oconee County, South Carolina. The amendments are effective as of the date of issuance.

These amendments revise the TS restrictions on burning low-level contaminated oil.

The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments was not required since the amendments do not involve a significant hazards consideration.

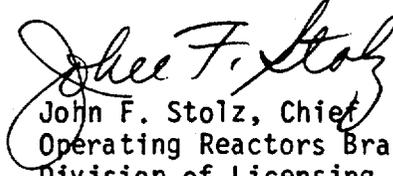
The Commission has prepared an environmental impact appraisal for this action and has concluded that an environmental impact statement is not warranted because there will be no significant environmental impact attributable to the action.

-2-

For further details with respect to this action, see (1) the application for amendments dated February 3, 1982, as supplemented on July 23, 1982, (2) Amendments Nos. 116, 116, and 113 to Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, and (3) the Commission's related Safety Evaluation/Environmental Impact Appraisal. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Oconee County Library, 501 West Southbroad Street, Walhalla, South Carolina. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 15th day of November 1982.

FOR THE NUCLEAR REGULATORY COMMISSION


John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing