

FEB 10 1977

MEMORANDUM FOR: K. R. Goller, Assistant Director for Operating Reactors, DOR
FROM: D. G. Eisenhut, Assistant Director for Operational Technology, DOR
SUBJECT: SEISMIC QUALIFICATION OF OCONEE EMERGENCY POWER PATH

Plant Name: Oconee Nuclear Station Units 1, 2 and 3
Licensing Stage: Operating Plants
Docket Numbers: 50-269, 50-270, 50-289
Branch and Project Manager Requesting Assistance: ORB 1, J. D. Neighbors
Description of Request: TAC 6048 - ORB-1-250
Review Status: Awaiting Additional Information

The Engineering Branch, Division of Operating Reactors has reviewed the information submitted with the letter dated October 7, 1976.

We find that before we can complete our review, additional information as indicated in the enclosure, is necessary.

It should be pointed out that our review pertains only to the seismic capability of the emergency power path and not to the General Design Criterion number 2 of the Appendix A to the 10 CFR Part 50.

D. G. Eisenhut, Assistant Director
for Operational Technology
Division of Operating Reactors

Enclosure: As stated

cc: V. Stello
L. Shao
W. Butler
A. Schwencer
D. Neighbors
R. Stuart
P. Atherton
K. Jabbour
G. Bagchi

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SURNAME ➤	GBagchi	KJabbour	RStuart	LCShao	DGEisenhut
DATE ➤	2/2/77	2/2/77	2/2/77	2/7/77	2/8/77



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

FEB 10 1977

MEMORANDUM FOR: K. R. Goller, Assistant Director for Operating Reactors, DOR
FROM: D. G. Eisenhower, Assistant Director for Operational Technology, DOR
SUBJECT: SEISMIC QUALIFICATION OF OCONEE EMERGENCY POWER PATH

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We find that before we can complete our review, additional information as indicated in the enclosure, is necessary.

It should be pointed out that our review pertains only to the seismic capability of the emergency power path and not to the General Design Criterion number 2 of the Appendix A to the 10 CFR Part 50.

A handwritten signature in dark ink, reading "D. G. Eisenhower", is positioned above the typed name and title.

D. G. Eisenhower, Assistant Director
for Operational Technology
Division of Operating Reactors

Enclosure: As stated

cc: V. Stello
L. Shao
W. Butler
A. Schwencer
D. Neighbors
R. Stuart
P. Atherton
K. Jabbour
G. Bagchi

OCONEE NUCLEAR STATION UNITS 1, 2 & 3
SEISMIC CAPABILITY OF EMERGENCY POWER PATH
ENGINEERING BRANCH-DIVISION OF OPERATING REACTORS
REQUEST FOR ADDITIONAL INFORMATION TAC #6048

1. For each of the structures indicated in Table I describe foundation condition i.e, soil or rock, indicate how soil-structure interaction was accounted for, discuss what precautions were taken to stabilize the fill soil where applicable, provide the input response spectra, indicate the damping values and the extent to which a three directional earthquake was considered for the design and discuss the load combinations investigated.
2. Describe the dynamic model of the transmission line and the towers. Indicate how the relative displacements of the ground between the towers during a seismic event are accounted for. Identify the critical sections on the transmission line, the towers and their foundations and provide a stress summary comparing the stresses against the acceptance criteria citing the applicable codes.
3. Describe the dynamic model of the 230 kvSwyd Relay House and provide the floor response spectra for different locations at which Category I equipment are supported. Identify the critical sections and provide a stress summary comparing the stresses against the acceptance criteria from applicable codes.
4. Provide the dynamic model of a typical transformer in the overhead emergency power path including its foundation. Discuss the methods used to seismically qualify the fan coolers mounted on the transformers to ensure operability during and after a seismic event.

5. Provide a copy of a typical equipment procurement specification and discuss the extent and the manner in which the dynamic loads from SSE and OBE were considered by the supplier to qualify the subject equipment.
6. On Table 2, identify clearly, for each of the items qualified by a combination of test and analysis, the portions which were qualified by analyses, and the portions which were qualified by tests. Provide some typical results for the qualification program for the 230 KV Power Circuit Breakers (PCB) and supportive equipment.
7. For items or portions of items qualified by analysis provide the following information:
 - a. State whether the analysis method was static or dynamic, and justify your selection.
 - b. Provide a diagram of the math model used for each equipment item.
 - c. Provide input loads used in the analysis and point of application.
 - d. Show location and magnitude of the highest stress intensity and deflection, and list the corresponding margins of safety.
 - e. Verify that the operability of each equipment item was considered in your analysis and provide a discussion on how the calculated deflections were considered in relation to the operability of the component.
 - f. Define the acceptance criteria used in the operability analysis.
8. In view of the size of the emergency power path, provide a discussion on detailed inservice inspection and maintenance program to ensure integrity and serviceability of the structures and equipment incorporated in the emergency power path. Parameters required to be monitored, for example, may be the tension in overhead cables or deflection of towers. Indicate your intent to incorporate the proposed inservice inspection and test frequency in the technical specifications of the three nuclear power plants.



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NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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The Engineering Branch, Division of Operating Reactors has reviewed the information submitted with the letter dated October 7, 1976.

We find that before we can complete our review, additional information as indicated in the enclosure, is necessary.

It should be pointed out that our review pertains only to the seismic capability of the emergency power path and not to the General Design Criterion number 2 of the Appendix A to the 10 CFR Part 50.

A handwritten signature in dark ink, reading "D. G. Eisenhut", is positioned above the typed name and title.

D. G. Eisenhut, Assistant Director
for Operational Technology
Division of Operating Reactors

Enclosure: As stated

cc: V. Stello
L. Shao
W. Butler
A. Schwencer
D. Neighbors
R. Stuart
P. Atherton
K. Jabbour
G. Bagchi

OCONEE NUCLEAR STATION UNITS 1, 2 & 3
SEISMIC CAPABILITY OF EMERGENCY POWER PATH
ENGINEERING BRANCH-DIVISION OF OPERATING REACTORS
REQUEST FOR ADDITIONAL INFORMATION TAC #6048

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FEB 9 1977

50-269

MEMORANDUM FOR: William P. Gammill, Assistant Director for Site
Technology, DSE

FROM: Robert E. Jackson, Geologist, Geology/Seismology
Branch, DSE
John Kelleher, Seismologist, Geology/Seismology
Branch, DSE

THRU: J. Carl Stepp, Chief, Geology/Seismology Branch, DSE
R. B. Hofmann, Leader, Geology Section, GSB, DSE

SUBJECT: OCONEE/JOCASSEE DAM SEISMICITY

We have been following the situation at Oconee/Jocassee dam since July, 1976, and this memo will update what has happened since that time. At the July 27, 1976 site visit the staff requested that Duke Power Company provide a report discussing the earthquake activity at Jocassee Dam. On July 21, 1976, the Assistant Director for Operating Reactors was informed that another meeting with the utility would probably be needed (July 21, 1976 memo Gammill to Collier, Attached). This memo also itemized a number of concerns relating to the seismicity near Jocassee dam. The staff also recommended that operation of a seismic monitoring network be reinstituted. As a result, a meeting with the utility was held on September 21, 1976 to discuss responses to these questions. At that time the applicant supplied several reports relating to the observed seismicity and site geology (see attached meeting summary by G. Zeeh). On October 25, 1976 we were informed that a seismic monitoring program would be reinstalled and operational on November 1, 1976 (letter, Parker to Rusche, October 25, 1976). On January 7, 1977 we met with Drs. Dave Simpson and Klaus Jacob of Lamont-Doherty Geological Observatory to seek advice on methods of resolving this situation.

Our consideration of this issue to date has indicated a need to meet with the applicant as soon as possible to discuss specifics of dam design, the earthquake activity since July, the seismic monitoring program, and local geology. An agenda for the proposed meeting to be held this month is attached.

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memo
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It is anticipated that our continued involvement will be required in order to review data gathered by the utility. In addition, further requests for additional information relating to seismicity, adequacy of the dam, local geologic conditions, and other seismologic questions will be forthcoming. Dr. Dave Simpson of Lamont-Doherty Geological Observatory, an expert in reservoir-induced seismic activity has indicated a willingness to act as consultant to us on this review.

Because of the existence of reservoir-induced seismicity in the vicinity of this large dam upstream from the Oconee nuclear plants we do have a high level of concern. Moderately large damaging earthquakes have occurred in other parts of the world near similar large dams. The presence of this seismicity requires that the seismicity, site geology and their possible impact on the dam be examined vigorously and as soon as possible by both the staff and the utility.

Robert E. Jackson, Geologist
Geology/Seismology Branch, DSE

John Kelleher, Seismologist
Geology/Seismology Branch, DSE

Attachments: As stated.

cc: w/o attachments
D. Neighbors
R. Jackson
J. Kelleher
J. Stepp
R. Hofmann

OFFICE ➤	GSB:DSE	GSB:DSE	GSB:DSE	GSB:DSE		
SURNAME ➤	RJackson:lm	JKelleher	JStepp	RHofmann		
DATE ➤	2/3/77	2/1/77	2/3/77	2/4/77		

TENTATIVE DISCUSSION ITEMS

FOR

MEETING WITH DUKE POWER COMPANY

OCONEE/JOCASSEE DAM

1. Geology and Seismology Staff Objectives
2. Specifics of Seismic Network Operation
 - a. Station locations
 - b. Network capability - magnitude and threshold, distance and depth capability
 - c. Discussion of hypocentral activity since July 1976, including focal plane solutions
 - d. Reporting procedures to NRC staff
3. Specific Information on Geologic Reconnaissance of Site Area
 - a. Location of discovered faulting
 - b. Basis of fault age dating
 - c. Available photos of dam abutments and foundation
 - d. Subsurface geology - models
4. Reservoir-Induced Seismicity
 - a. Similarities - difference Jocassee to known damaging earthquakes
5. Seismic Adequacy of Dam
 - a. Construction progress photos/airphotos
 - b. Groundwater elevation before/after dam filling (time-head plots)
 - c. Embankment construction specifications (engineering properties for design and basis, density, gradation for all zones, settlement and alignment of crests and slope as a function of time)

- d. Seepage rates (relief wells, weirs, drains
- e. Simple strain computations to assess approach to threshold of cracking core
- f. History of inspections and repairs to date
- g. Sensitivity of dam to surface fault movement (thickness and location of filters, strain distribution - rough calculations)
- h. Time - acceleration plot of expected earthquake (reference .12 g for 5.6 M_L earthquake - considerations, basis justification)

We request personnel that can discuss the above items and other related peripheral items be present at the meeting. This should include the seismological consultants and dam engineers.

JUL 21 1976

Karl R. Goller, Assistant Director for
Operating Reactors, DOR

EARTHQUAKES NEAR JOCASSEE DAM/OCONEE PLANTS

As a result of a site visit by a staff seismologist and geologist to the Jocassee Dam on July 13, 1976, and discussions with staff hydraulic and foundation engineers, we have a number of questions about the significance of the earthquake activities and flood potential which should be conveyed to Duke Power Company. During the site visit and meeting, Duke representatives indicated that they would send any information needed. Some of the requests delineated below were not discussed during the visit. Consequently another meeting with the utility may be necessary.

While our attention is primarily addressed to Jocassee Dam, our concerns are, of course, with the potential floods effects on Oconee plant as a result of a failure of Jocassee Dam. During the review of Oconee we concluded, based on the stated seismic design criteria, that Jocassee would not fail and no evaluation of failure on Oconee was initiated. However, an application for a downstream plant contains the results of a flood study, including the assumed partial failure of Jocassee Dam. This study concluded that Oconee Dam would be overtopped and would fail. The Oconee plant grade is lower than the crest of Oconee Dam. Thus the flood potential from the upstream dam failure must be clearly identified if, indeed, a failure of the dam can reasonably be postulated.

Jocassee Dam is located approximately 15 miles north of Oconee Nuclear Plant Units 1, 2 and 3. The lake behind the dam has a maximum depth of 380 feet, and the water table is approximately 40 feet below the bottom of the reservoir. Reservoir filling began in 1971. On July 13, 1971, an intensity $M=IV$ earthquake was reported 11 miles south of the dam. A small quake was felt on August 12, 1973, 3.5 miles northeast of the dam. On October 18, 1975, a magnitude (M) = 2.5 earthquake occurred near the dam. On November 25, 1975, a $M=3.2$ earthquake was recorded at lake Jocassee. After this earthquake, some cloudy water was reported in one of the wiers measuring seepage water near the dam abutment. On December 8, two or three shocks were felt ranging from $M=2.5$ to 2.7. Since that time microearthquake activity, as monitored

- 2 -

by portable seismographs, has continued. Such activity is commonly associated with the impoundment of deep reservoirs. As of July 1, 1976, Duke Power is maintaining one portable station within the vicinity of the dam which will be made permanent as part of the South Carolina network, and another portable instrument to the northwest in the area of the proposed Bad Creek Project.

Since installation of the seismic monitoring, the earthquakes have continued at a high rate (approximately 10 per day). The area over which these earthquakes are occurring has been increasing. Such an increase in area could signify the possibility of a large earthquake as was observed in the Rangely oil field pressurization experiments. The depth of focus of the events recorded to date is shallow (1 to 3 kilometers) and occur predominantly within the projected location of the Brevard Zone, a major structural zone in the southeastern U. S. which passes under the lake.

Shallow earthquakes can be accompanied by surface displacements. Duke Power Company investigated the surface geology in the vicinity of Jocassee dam prior to construction and in the last several months has reviewed existing geologic mapping and remote sensing in the area of the dam. In addition, geophysical information relating to the Brevard Zone has been evaluated. As a result of this review, Duke is confident that no faulting exists at the dam foundation, although it appears that the subsurface geology is not well understood.

Jocassee dam is a large dam. Although large dams often have a history of triggering microearthquake activity without a damaging level earthquake occurring, several such dams appear to have been responsible for generating damaging level earthquakes. Since Jocassee dam is located upstream from the three-unit Oconee plant, the potential threat to the dam of earthquakes should be fully evaluated. Duke Power Company should undertake additional studies and supply the following information for staff evaluations:

1. A complete description of the regional and local geology in the vicinity of the Jocassee Dam including the subsurface geology.
2. A complete description of the local earthquake activity prior to and after filling of the reservoir, including information gathered and deduced as a result of monitoring, such as earthquake location, fault plane solutions, stress orientations and crustal models.
3. A determination of the potential earthquake that could occur in the vicinity of the Jocassee Dam.

4. A dynamic analysis of the seismic design of Jocassee Dam.
5. A report of any operational difficulties noted during construction and operation of Jocassee Dam including information and measurements on present monitoring instrumentation (piezometers, wiers, etc.).
6. The likely failure mode(s) and extent thereof of a potential seismically-induced or other causative failure of Jocassee Dam. Provide the bases for your analyses and conclusions.
7. Based on the evaluations of Request 6, provide the estimated flood hydrograph at the Oconee Dam and at the site of the nuclear power plants, including water elevation. Provide the bases for your estimates.
8. If requests 6 or 7 require physical modeling, who will design and operate the model? Provide a discussion of the qualifications of the modelers and the bases for any tests.
9. Identify potential adverse effects on safety-related facilities of the flood levels identified in Request 7.

It is also recommended that Duke Power Company reinstitute a seismic monitoring network capable of accurately locating earthquake activity in the vicinity of Lake Jocassee. This monitoring should continue for a minimum of 2 years or until there is a major decrease in the level of seismic activity.

Specific details relating to the above requests can be worked out during a meeting with the utility.

William P. Gammill, Assistant Director
for Site Technology
Division of Site Safety and
Environmental Analysis
Office of Nuclear Reactor Regulation

cc: H. Denton
D. Muller
J. Stepp
R. Hofmann
R. Jackson
L. Hulman
W. Bivins
T. Johnson

Distribution:
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GSB Rdg
DSE Rdg

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RJackson:ms	JCStepp	LGHulman	WPGammill
7/16/76	7/ /76	7/ /76	7/ /76

DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

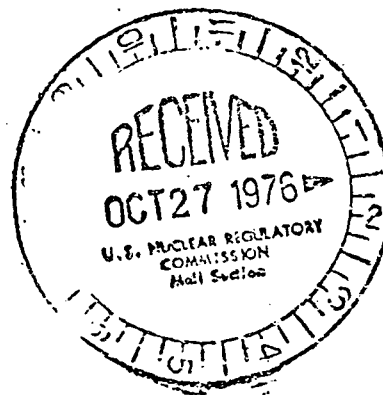
WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

October 25, 1976

TELEPHONE: AREA 704
373-4083

Mr. Benard C. Rusche, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

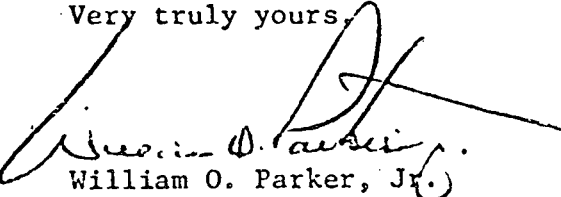
RE: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287



Dear Mr. Rusche:

On September 21, 1976 Duke Power Company representatives met with members of your staff to discuss the significance of seismic activity in the vicinity of the Jacassee Dam and the potential impact on the Oconee Nuclear Station. This is to advise you that the seismic monitoring program discussed at that meeting is being reinstituted for a period of two years. The instrumentation to be installed will be capable of accurately locating and measuring seismic activity in the area. It is expected that this instrumentation system will be operational on November 1, 1976.

Very truly yours,


William O. Parker, Jr.

MST:ge

SEP 27 1976

R. Jackson

cc: Licensee
NRC PDR
LOCAL PDR
ORB#1 Reading
B. C. Rusche
E. G. Case
R. Boyd
R. Heineman
V. STello
H. Denton
D. J. Skovholt
P. Collins
C. Heltemes
R. Houston
R. P. Denise
T. Speis
R. Clark
D. B. Vassallo
J. Stolz
K. Kniel
O. Parr
S. Varga
R. R. Maccary
J. Knight
S. Pawlicki
I. Sihweil
D. J. Ross
P. Check
T. Novak
Z. Rosztoczy
R. L. Tedesco
V. Benaroya
G. Lainas
T. Ippolito
K. R. Goller
D. Ziemann
G. Lear
R. Reid
D. G. Eisenhut
L. Shao
R. Baer
W. Butler
B. Grimes

V. A. Moore
G. Knighton
B. Youngblood
W. Regan
R. H. Vollmer
D. Bunch
J. Collins
W. Kreger
M. L. Ernst
R. Ballard
M. Spangler
W. P. Gammill
J. Stepp
L. Hulman
T. J. Carter
S. M. Sheppard
OR PM
R. Fraley, ACRS (16)
OI&E (3)
OELD
Principal Staff Participants

bcc: T. B. Abernathy, TIC
J. R. Buchanan, NSIC



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

DOCKETS NOS.: 50-269/270/287

DATE: SEP 27 1976

LICENSEE: Duke Power Company (DPC)

FACILITY: Oconee Units 1, 2 & 3

SUMMARY OF MEETING HELD ON SEPTEMBER 21, 1976, TO DISCUSS THE SIGNIFICANCE OF SEISMIC ACTIVITY IN THE VICINITY OF THE JOCASSEE DAM AND THE POTENTIAL IMPACT ON THE OCONEE NUCLEAR STATION

On September 21, 1976, representatives of Duke Power Company and its consultant, Law Engineering, met with NRC staff to discuss the significance of seismic activity observed at the upstream Jocassee Dam site and the potential effects of this activity on the Oconee Nuclear Station.

A list of attendees is enclosed.

Significant discussions and agreements are summarized below.

The staff indicated that upon reviewing information gathered during our visit to the Jocassee Dam and the Oconee Station in July 1976, there are a number of areas that require clarification or resolution with respect to the potential for a seismic induced failure of the Jocassee Dam and the resultant possible impact on nuclear safety at the Oconee Nuclear Station.

Of major concern to the staff is that the seismic monitoring network which had been installed to accurately locate and measure seismic activity in the vicinity of the Jocassee Dam had been removed by the licensee. We acknowledged that the seismic activity has significantly decreased both in number of events and level of magnitude, but we expressed concern that there be adequate assurance that it would remain this way. The licensee indicated that two of the instruments have remained in use and will be used to monitor the seismic activity to verify that the number of events and peak magnitudes remain low. Should either the number of events or their magnitude increase, the licensee indicated that the full network of instruments could be reinstalled in a short period of time. The licensee felt that there was no immediate need to reinstall the complete network, but that it would examine this further and would advise the staff of its intentions in the very near future. The staff agreed to this approach.

The underlined statements are false and misleading

R.E. Johnson

John K. ...

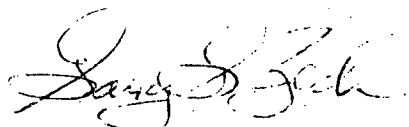
SEP 27 1976

With regard to the potential for a seismic induced failure of the Jocassee Dam, the staff indicated the need for a study to analyze possible modes of dam failure with the resultant potential impact on the Oconee facility. The licensee committed to conducting such a study and agreed to a meeting with the staff on October 8, 1976, to discuss the preliminary results of its study.

The staff indicated that questions existed regarding the need for reevaluating the design basis earthquake of the Oconee Nuclear Station in light of the seismic activity at the Jocassee Dam site. The licensee committed to addressing this area in a submittal to the staff in October 1976.

The staff and licensee discussed the ability to lower the Jocassee Lake level should the number or intensity of the micro seismic events increase significantly. It was concluded that the lake level could be reduced, over a period of days from the normal operating level down to the sill level of the dam, but that Jocassee Lake could not be completely drained.

The staff indicated the need for additional information regarding the geologic structures at the Jocassee Dam site, the structural design of the dam itself, and the results of periodic inspections which have been conducted on the dam by the licensee. In response, the licensee committed to submitting the results of a relevant study recently completed by their consultant, Law Engineering. In addition, the licensee will provide a copy of the foundation report on the Jocassee Dam and other pertinent design information.



Gary G. Zech, Project Manager
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
List of Attendees

cc w/encl:
See next page



NRC STAFF MEETING WITH
DUKE POWER COMPANY (DPC) AND
LAW ENGINEERING
SEPTEMBER 12, 1976

NRC

G. G. Zech
J. Kellener
R. E. Jackson
T. J. Bennett
W. S. Bivins
J. T. Chen
L. A. White
A. Schwencer

Nunn, Snyder & Associates (NRC Consultant)

D.E. Nunn

DPC

D. C. Holt
M. Tuckman
S. B. Hager
R. S. Bhatnagar
L. J. Bare
L. C. Dail

Law Engineering

G. H. Fogle
C. E. Sams
G. E. Sowers

SEP 27 1976



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

JUL 27 1976

William P. Gammill, Assistant Director for Site Technology, DSE

Thru: J. C. Stepp, Chief, Geology and Seismology Branch, DSE

REPORT ON SITE VISIT - OCONEE/LAKE JOCASSEE DAM

A site visit was made on July 13, 1976 for the purpose of gathering information relating to the earthquake activity in the vicinity of Lake Jocassee during past months.

Duke Power Company and their geologic and seismologic consultants, Law Engineering Testing Company (LETCO) and Dr. T. Long made a presentation to the staff. Information on past earthquake activity, geologic mapping, and dam construction was presented. An outline of the topics discussed was provided by the utility and is enclosed. It was indicated to us that a board of consultants, approved by the Federal Power Commission, has recommended that Duke gather data on the earthquakes and review geologic mapping of the area. Dr. P. Talwani of the University of South Carolina and the South Carolina State geologist have also been consulted by the utility. The representatives of Duke Power indicated that as of July 1, 1976 the 4-7 portable seismographs that were being used had been withdrawn and one portable instrument was installed in the vicinity of Jocassee dam. Duke Power's intention is to provide support for this station as part of the permanent South Carolina network. Another portable instrument is located in the vicinity of the proposed Bad Creek project to the north of Lake Jocassee. After the meeting a visit was made to the Lake Jocassee Dam as well as several miles north of the dam where a view of the general valley area could be observed. The staff advised Duke Power that a report discussing the earthquake activity would be requested for staff evaluation.

Robert Jackson

Robert Jackson, Geologist
Geology and Seismology Branch
Division of Site Safety and
Environmental Analysis

Renner Hofmann

Renner Hofmann, Seismologist
Geology and Seismology Branch
Division of Site Safety and
Environmental Analysis

Enclosure:
As stated

William P. Gammill

-2-

Enclosure:

1. List of Attendees
2. Proposed Presentation Outline
3. Press Release
4. Incident Report

cc: H. Denton
D. Muller
K. Goller
G. Zeech
W. Gammill
C. Stepp
L. Hulman
R. Hofmann
W. Bivins
R. Jackson
F. Miraglia
NRC PDR
L. Heller

LIST OF ATTENDEES

NAME

S. B. Hager
P. Talwani
R. E. Jackson
R. Hofmann
Leland Timothy Long
George F. Sower
Bob White
G. H. Fogle
D. C. Holt
M. S. Tuckman
Clay Sams
E. H. Gladden
L. C. Dail
R. S. Bhatnagan
Donald Stuenson

COMPANY

Duke Power Company
U. South Carolina
USNRC
USNRC
Georgia Tech - LETCO
Law Engineering
Law Engineering
Law Engineering
Duke Power Company
Duke Power Company
Law Engineering
Duke Power Company
Duke Power Company
Duke Power Company
Duke Power Company
Univ. of South Carolina

PROPOSED PRESENTATION OUTLINE

JOCASSEE - NRC MEETING

Illustration

Outline

P. B. King 1954

Overstreet and Bell 1965

Hatcher and Griffin 1969

Georgia color IR photos,
ERTS photos, Bad Creek
reports, U.S. Agriculture
Department photos

Hatcher 1971

Caxean 1961-1962

Roper and Dunn 1969

Miscellaneous Jocassee
photos and maps of geo-
logic data

INTRO BY P. B. KING - DUCK POWER

A. Regional Geology

1. Geologic provinces and general rock type
 - a. Piedmont - Paleozoic metamorphic rocks - some local intrusive bodies
 - b. Blue Ridge - Early Paleozoic schist, gneisses and amphibolites
 - c. Brevard Zone - Mainly schists
2. Structures in area
 - a. Brevard - Dips southeast beneath reservoir and dam
 - b. Tectonic slides
3. Linears in area
 - a. Brevard
 - b. Warwoman
 - c. Others

B. Local Geology

1. Henderson Gneiss
 - a. Site area prior to construction
 - b. Outcrops available and mapped
 - c. Maps of dam vicinity
 - d. Structural map of vicinity
 - e. Geologic sections
 - f. Photos of dam foundation

Area Drainage Map

Historical Earthquake
Epicenters at Jocassee
prior to impoundment

Jocassee Reservoir
Filling curve

October 18, 1975,
Intensity survey

"a" values, "b" values,
and lake levels

2. Brevard Zone

a. 3.5 miles of northwest of dam

3. Drainage pattern in area

a. Joint control

C. Local Earthquake History Prior to Filling

1. Started filling Jocassee April 1971

2. 3 VI MMs

a. 1916 (1) and 1957 (2)

3. V MMs - 8

4. < V MM - 20

5. Total within 60 miles is 31 earthquakes

6. Most recent local earthquakes were:

a. 1969, V MM, 11 miles northwest

b. 1971, IV MM, 11 miles south

D. Local Earthquakes after Filling

1. July 13, 1971, IV MM, 11 miles south

2. No other in region of > M=3 or felt
prior to November 1975

3. August 12, 1973, felt small event 3.5
miles northeast of dam

E. Events at Jocassee since October 1975

1. October 18, 1975, M=2.5

Intensity survey

2. 4 - 7 Portable Microearthquake recorders

MEQ 800, Georgia Tech, USC, USGS

4 Strong motion instruments

3. Activity and lake levels

USC &

4. LETCo - Data gathered and analyses

- a. "a" and "b" values (Define)
- b. Hypocenter locations
- c. Fault plane solutions
- d. Correlation with other parameters - including lake levels
- e. Case histories of reservoir induced seismicity
- f. Earthquake mechanisms

~~g. Maximum earthquake~~ *later*

5. USC STUDIES - DR. TAIWANI

Piedmont Earthquake Mechanisms and Micro-earthquake Activity

- 1. Recent concepts
- 2. Proposed mechanism
 - a. Stress concentrations at crustal inhomogeneities
- 3. Microearthquake activity

Conclusions on "a" Values

- 1. Definition - number of events per day
> .04" duration (> .5 sec.) (magnitude = -
- 2. Peak January 13, 1976, for period October 1975 through June 1976
- 3. Possible slow decline in "a" values January 13 to present

Conclusions on "b" Values $\log(N_G) = A - bM$
 $M = \log(\text{duration})$

- 1. We have used a maximum likelihood estimator of "b" using magnitudes computed

"a" values, "b" values
and lake levels

2. 7-day moving average
3. Possible correlation between "b" values and lake levels

1/2
1/4

Lake Levels vs. Other Parameters

1. H. K. Gupta reports
 - a. An increase in lake level is followed by an increase in frequency of shocks and rapid changes trigger larger events
2. Possible correlation of Jocassee "b" values with lake level

Epicenter Location Map

1/2
1/4

Conclusions on Hypocenters

1. Occur mainly between surface and 3 km below sea level
2. Occur in a roughly oval area, maximum diameter about 10 km
3. Some hypocenters may be located within Brevard Zone rocks
4. Area of hypocenters expanding with time
5. Hypocenters becoming shallower with time

Local geologic cross-section

Chronological Epicentral Areas

K. Conclusions on Fault Plane Solutions

1. Introduction
 - a. Traditional use
 - b. Composite fault plane solutions for small shallow events
 - c. Stress field derived from a fault plane solution

Stress Field Maps (6)

Hypothesized Fault
Plane for Maximum
Earthquake

Intensity-
Acceleration Relation-
ship

2. Results of fault plane solution work

a. Summary of fault plane solutions and
resulting stress field orientations

- (1) Stress field varies in time and
location with local exceptions
- (2) Below 1 km (below msl) stress
field is extensional generally
in a north-south direction

b. Comparison with

- (1) Regional stress field results
- (2) Local stress field measurements
(Bad Creek)

L. Maximum Earthquake at Jocassee

1. Maximum fault plane determined by hypo-
center locations and fault plane solution
2. Stress drop estimated
3. Using Randall's relationship, maximum
earthquake determined
 - a. Converts fault plane size and stress
drop to magnitude (5.55-5.8)
4. Determine maximum intensity and associated
acceleration
 - a. $I_0 = VII$ MM
 - b. $a = 0.12$ g
 - c. APPROXIMATE TO O'CONNOR $L = 1.9$

M. CONTINUING STUDY
PREPARED BY

Duke Power To Study Earth Movement In Area

WALHALLA - Duke Power Company said that it is joining with South Carolina authorities in a thorough study of mild earth movement activity in the vicinity of its Lake Jocassee in Oconee and Pickens Counties near here.

A series of "micro earthquakes" which began in October, 1975, are being studied by Duke engineers in collaboration with Dr. Pradeep Talwani, Geology Department of the University of South Carolina, and David E. Howell, Division of Geology, S. C. State Development Board.

A battery of six seismographs has been installed around Lake Jocassee, and these extremely sensitive instruments are charting any activity on a 24-hour basis.

In addition, the University of South Carolina has installed four instruments known as "strong motion accelerographs" to gather data for detailed analysis of any larger movements that may occur in the future.

Moderate earthquake activity is not uncommon in the Piedmont area. During the last 100 years, at least nine mild earthquakes were recorded in

an area within 50 miles of Jocassee Dam.

To assist in the studies, Duke has retained Law Engineering Testing Company, a firm noted for its expertise in seismic matters.

Duke Power also is discussing the establishment of a

permanent seismic station near the Jocassee reservoir with N. K. Olson, South Carolina's state geologist. This station would be a part of the South Carolina seismic network.

The first tremor was felt at Lake Jocassee on October 18, 1975, and on October 20 and 21 Dr. Talwani installed three seismographs. Another small tremor was recorded on November 6, and even smaller "aftershocks" on November 6-8-9.

A larger tremor was recorded on November 25, reaching a magnitude of 3.2 on the Richter Scale. Other minor tremors have been detected over the past few months, the latest on February 16, 1976.

The Jocassee dam and powerhouse, designed for much larger seismic events, has undergone a detailed inspection by Duke Power and found to have suffered no ill effects from the tremors.

The geologists and seismologists involved in the current study are seeking reasons for the tremors. A number of theories are now under investigation and all agree that several additional months of study may provide answers.

The Jocassee dam impounds a reservoir of 7,565 acres and serves as the upper pond for Duke's 610,000 kilowatt hydroelectric pumped storage operation. It became fully operational in May, 1975.

KEOWEE COURIER 3/3/76

DUKE POWER COMPANY

GENERAL OFFICES

422 SOUTH CHURCH STREET

CHARLOTTE, N. C. 28201

TELEPHONE: AREA 70
374-4011

October 18, 1975 - 12:30 AM

Subject: Jocassee Hydro Station
Earthquake

Conditions Prior To Incident:

Friday October 17 it rained 2½ inches at Jocassee Hydro Station from 6 AM to 5 PM. Friday October 17 it rained 5 3/4 inches at Bad Creek from 4 AM to 2 PM. Jocassee Hydro Station was not operating.

Incident:

At 12:30 AM Sam Burton, operator on duty, heard a loud noise and station vibrated for five (5) seconds. Made inspection of station, could find no new leaks or cracks in walls. Inspected top deck and rock walls near station, everything seemed normal.

Inspected Jocassee main dam and dikes 1 and 2. Could find no new leaks or shifting in rocks or soil. Also inspected all Keowee dams and everything normal.

Talked with various people in the area and listed are the comments.

Charles McSwain: Lives 5 miles from station.

Thought he heard a sonic boom and a lot of shaking for a few seconds.

Terry Patterson: Lives 3 miles from station.

Heard loud noise and dishes fell from shelves. No cracks in wall and could find no damage.

M. W. Abercrombie: Lives 10 miles from station.

Heard a noise that sounded like explosion. Minor shaking.

O. M. Rumpfelt: Lives about 10 miles from station.

Did not hear or feel anything.

Jocassee Recording Rain Chart:

At 12:30 AM recording needle moved 1/8" and then returned to normal position.

Bad Creek Recording Rain Chart:

No movement of recording needle.

Freeman Service Station: About 5 miles from station.

Heard loud noise - something like thunder. Another man lives about 1 mile from service station thought someone slammed a car door.

Town of Salem: 9 miles from station.

Talked with 6 people and no one heard or felt anything.

Walhalla Police Department: 19 miles from station.

No report of noise or vibration.

Seneca Police Department: 21 miles from station.

No report of noise or vibration.

Clemson Weather Station: 26 miles from station.

No report of noise or vibration.

Oconee Nuclear Station: 16 miles from station.

Has accelerometer mounted in the tendon gallery to detect any vibration and will alarm at .05 g's. Alarm was not activated.

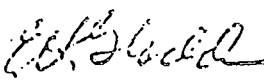
University of South Carolina: Geology Department has detectors at Parsons Mountain and Jenkinsville, S.C. The seismograph registered 2.5^T.

Cause of the Incident:

A small earth quake.

Comment:

Notified the Department of Geology at the University of South Carolina. Talked with Dr. Pardeep Talwani, department head, and he asked permission to come to Jocassee and set up temporary instrumentation to detect any further earth tremors. A slight tremor was recorded Monday night and the center of activity was estimated to be 3 miles up stream of the Jocassee Dam.


E. H. Cladden
Plant Superintendent

EHG/jc

FEB 8 1977

50-269

MEMORANDUM FOR: L. C. Shao, Chief, Engineering Branch, DOR

FROM: R. L. Baer, Chief, Reactor Safety Branch, DOR

SUBJECT: DRAFT SAFETY EVALUATION ON PUMP AND VALVE TESTING
PER 10 CFR 50.55a OCONEE UNIT NO. 1

The enclosed Draft Safety Evaluation represents the Reactor Safety Branch input to the review of the Oconee Unit No. 1 submittal on pump and valve testing to the provisions of ASME Boiler and Pressure Vessel Code, Section XI. These comments have been previously provided informally to the Engineering Branch which is coordinating the review.

161

Robert L. Baer, Chief
Reactor Safety Branch
Division of Operating Reactors

Enclosure:
As stated

cc: V. Stello
D. Eisenhut
C. Berlinger
S. Weiss
F. Coffman
R. Woods
N. Anderson

Contact:
N. Anderson, DOR
X28050

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NAnderson Rdg
RBaer

269

MEMO
4

OFFICE	DOR:RS NRG	DOR:RS	DOR:RS			
SURNAME	NAnderson:cg	FCoffman	RBaer			
DATE	2/8/77	2/8/77	2/8/77			

SAFETY EVALUATION BY
REACTOR SAFETY BRANCH OF OT
OCONEE UNIT 1
PUMP AND VALVE TESTING
PROVISIONS REQUIRED BY 10 CFR 50.55a

INTRODUCTION

By letter dated October 1, 1976, Duke Power Company submitted proposed changes to the Oconee Unit 1 Technical Specifications to incorporate the provisions of 10 CFR 50.55a as revised on February 12, 1976 (41 FR 6256). The revised paragraph 50.55a (g) contains provisions that require inservice inspection and testing of ASME code class 1,2,and 3 components including pumps and valves. Inspection and testing is to be in accordance with section XI of the ASME Boiler and Pressure Vessel Code and applicable agenda. The revised paragraph 50.55a(g) requires functional testing of pumps and valves as well as inservice inspection. This means that a periodic testing program of all Class 1,2,and 3 pumps and valves must be initiated according to the schedule and test frequency specified in the code.

An important provision in paragraph 50.55a(g) allows the NRC to grant relief from ASME code requirements that have been determined to be impractical for a facility. The regulation states in part: "The Commission will evaluate determinations under paragraph (g) (5) of this section that code requirements are impractical and may grant such relief as it determines is authorized by law and will not endanger life or property or the common defense and security and is otherwise in the public interest giving due consideration to the burden upon the licensee that could result if the requirements were imposed on the facility".

Duke Power Company took general exception to the provisions of ASME Section XI and instead of providing a listing of pumps and valves which could not be inspected and tested with specific reasons for non-compliance they supplied a list of safety related pumps and a listing of valves (by drawing no.) which could be tested with specific exceptions for certain identified components. The general exceptions submitted by the licensee were as follows:

- (1) The design and access provisions for inservice examination of Oconee 1 considered principally the code requirements for inspection of the reactor coolant pressure boundary since the ASME Code, Section XI, 1970 edition did not address Class B and Class C piping and components at the time engineering design was completed. Therefore, Class B and C piping and components will be examined as accessibility permits. Inaccessible piping and components include, but are not limited to, those components permanently insulated; those components located in trenches, chases or other areas to which access would necessitate the removal of structures and/or other piping or components; and piping welds located within penetrations. Visual examinations performed during the code required system pressure tests will serve to detect degradation, if any, of the structural integrity of components for direct examination.
- (2) Class B and C piping and components whose pressurization or pressure measurement is impractical will be examined under conditions as closely approximating Code requirements as possible. Visual examinations will be conducted as accessibility permits.

- (3) The examinations of Class B and C piping and components whose operation is not necessary for the safe shutdown and cooldown of the Reactor Coolant System and whose inspection would create excessive radiation exposure will be considered to be impracticable.
- (4) Since South Carolina is not an ASME Code state, the inservice examination will not be witnessed by an Authorized Inspector.

EVALUATION

The Oconee Unit 1 submittal was reviewed in detail including a review of plant piping and instrument diagrams for the systems identified by the licensee.

The submittal was limited by the licensee to safety-related components. Some valves were omitted and exceptions were taken to specific test requirements for others. Many of the valves identified by the licensee were restricted from being exercised during power operation or do not have provisions for being exercised. For many valves, provisions do not exist for leak testing.

The staff has no way to confirm that the valves cannot be exercised or leak tested unless it is apparent from the piping and Instrument diagram. It is our position that we will accept the licensee's statement on testability unless our review indicates that the valve is of sufficient importance that further justification, including possibly a site visit, is required.

Our review of the submittal follows:

PUMPS

The scope as stated in the July 1, 1974 edition Section XI, Article IWP, includes all class 1, 2, and 3 pumps which are provided with an emergency power source. This scope is acceptable to us and should present no problems to the licensee.

The listing of Class 1,2,and 3 pumps provided with emergency power appears to be complete. However each pump was not identified by equipment number and drawing number. Unique identification for each pump should be stated in the plant technical specification along with the specific tests to be performed. The proposed Technical Specification, par. 4.04 and par. 4.2.1 are unacceptable as written. The first paragraph of the Technical Specification bases, page 4.2-3 is also unacceptable for the same reason.

The licensee has stated that insufficient instrumentation and test provisions exist to fully implement the requirement of ASME Section XI. We accept this argument and agree that the test program for pumps is acceptable subject to unique identification of pumps and revision of the plant technical specifications as stated above.

VALVES

The licensee submitted a listing of valves selected for testing and identified each by valve number, drawing number, and valve name. Each drawing was reviewed to confirm that all important safety related power operated and check valves were included. Some manual valves were included in the listing. We found that in some cases, valves important to plant safety were omitted. These are included in the comments below. These comments on the valve testing are listed by drawing number.

Dwg PO-100-A-1

Only 2 of the three pressurizer relief valves are listed. Valve No. 1RC-66 should be included.

Dwg PO-101-A-1

Valves listed on this drawing are containment isolation valves. Check valve No. HP-194 should be included if possible in to the test program.

Dwg PO-102-A-1

Valves BS-3 and BS-4, power operated valves on the suction lines to the reactor building spray pumps are omitted. They should be included or justification provided for not including them.

Dwg PO-103-A-1,2,3

Check valves BS-14 and BS-19 are proposed to be tested every 5 years. A source of instrument air exists (according to the drawing) for spray nozzle testing. The licensee should consider using the instrument air to test the check valves on a more frequent schedule.

Dwg PO-104-A-1,3

No comment

Dwg PO-106-A-1

No comment

Dwg PO-106-E-1

No comment

Dwg PO-107-A-1

No comment

Dwg PO-107-B-1

No comment

Dwg PO-107-D-1

No comment

Dwg PO-110-A-1

No comment

Dwg PO-116-A-1

No comment

Dwg PO-121-A-1

No comment

Dwg PO-121-B-1

No comment

Dwg PO-122-A-1

Only one of sixteen main steam safety-reliefs is listed. Licensee should provide justification for not including the others.

Dwg PO-124-B

No comment

Dwg PO-127-B

We cannot locate N2 isolation valves 1N-91 thru 1N-94. These may be mis-numbered on submittal. Licensee should confirm and correct technical specification as required.

Dwg PO-137

No comment

Dwg PO-144-A-1

No comment

Dwg O-472

No comment

CONCLUSIONS

We conclude that the pump and valve testing in accordance with the provisions of Section XI proposed by Duke Power Company for Oconee Unit 1 will be acceptable provided that the comments stated above are satisfactorily resolved. In addition, the Licensee should be required to provide unique identification for each pump and valve to be tested in the Technical Specification with specific test requirements for each. The Bases section of the Technical Specification should provide justification for exceptions to code required tests.

Docket #16

FEB 7 1977

Dockets Nos. 50-269/270/287

MEMORANDUM FOR: A. Schwencer, Chief, Operating Reactors Branch #1, DOR

FROM: D. Neighbors, Project Manager, Operating Reactors Branch #1, DOR

SUBJECT: FORTHCOMING MEETING WITH DUKE POWER COMPANY (DPC) CONCERNING STEAM GENERATOR TUBE LEAKS AT OCONEE NUCLEAR STATION

Date and Time: Tuesday, February 15, 1977
10:00 a.m.

Location: Maryland National Bank Building
Room 6507

Purpose: To discuss Oconee Nuclear Steam Generator Tube Leaks and the results of the Examination of a Steam Generator Tube by B&W.

Participants: NRC

L. Shao
D. Eisenhut
B. D. Liaw
F. Almeter
D. Neighbors
A. Schwencer
D. Davis

DPC

W. Haller, et al

B&W

N. Hooker

Original signed by

D. Neighbors, Project Manager
Operating Reactors Branch #1
Division of Operating Reactors

cc: See next page

OFFICE >	DOR: ORB#1					
SURNAME >	DNeighbors:lb					
DATE >	2/07/77					

Meeting for
Oconee Nuclear Station

- 2 -

FEB 7 1977

Docket File
NRC PDR
LOCAL PDR
ORB#1 Reading
NRR Reading
B. C. Rusche
E. G. Case
V. Stello
D. Eisenhut
K. R. Goller
T. J. Carter
OR Branch Chiefs
OT Branch Chiefs
Project Manager
Attorney, OELD
OI&E (3)
OSD (3)
B. Faulkenberry, I&E
D. Thompson, I&E
S. M. Sheppard
Receptionist, Bethesda
Staff Participants
R. F. Fraley, ACRS (16)



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

FEB 7 1977

Dockets Nos. 50-269/270/287

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DOR

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DPC
W. Haller, et al
B&W
N. Hooker

D. Neighbors
D. Neighbors, Project Manager
Operating Reactors Branch #1
Division of Operating Reactors

cc: See next page

FEB 7 1977

MEMORANDUM FOR: Karl R. Goller, Assistant Director for Operating Reactors, DOR

FROM: Darrell G. Eisenhut, Assistant Director for Operational Technology, DOR

SUBJECT: AMENDMENT TO OCONEE UNITS 1, 2, 3 APPENDIX B TECHNICAL SPECIFICATIONS RE: pH OF WATER AND CHEMICALS DISCHARGED FROM THE STATION

PLANT NAME: Oconee Nuclear Station, Units 1, 2, and 3
DOCKET NUMBERS: 50-269, 50-270, and 50-287
RESPONSIBLE BRANCH: Operating Reactors Branch No. 1
PROJECT MANAGER: D. Neighbors
REVIEW STATUS: Review Complete

This memorandum responds to two separate requests for amendments to the Oconee Nuclear Station non-radiological environmental technical specifications. The first proposed amendment involved an increase in the pH of water allowed to be discharged from the wastewater collection basin from 8.5 to 9.0, and was made in a letter from W. Parker of Duke Power Company dated May 13, 1976. The second proposed amendment involved a change in the method of control of station chemical effluents by instituting a monitoring program for chemical concentrations discharged from the station and eliminating the chemical inventory program for chemical usage. This proposal was made in a letter from W. Parker of Duke Power Company dated September 1, 1976.

When we reviewed the proposal dated May 13, 1976 we found that we could not complete the review without more information. In memoranda dated August 2, 1976 and November 10, 1976 we specified the information that was needed. In letters from W. Parker of Duke Power Company dated September 29, 1976 and December 2, 1976 the licensee submitted this information and an assessment of the impact likely to occur because of this change. We have reviewed the licensee's submittals and found them to be adequate.

Our review of the proposed amendment dated September 1, 1976 indicated that, except for certain minor modifications which we have made, it is acceptable. The licensee has agreed to our modifications.

Contact: W. Pasciak, EEB/DOR
27903

MEMO

OFFICE ➤						
SURNAME ➤						
DATE ➤						

Karl R. Goller

-2-

Our reviews indicate that with regard to both of these proposed amendments, that they will not change the analyses of the environmental impact of operation of the facility previously made by the staff. As no change in environmental impact is expected to occur a Negative Declarations is appropriate for this action. Enclosure I contains the modified amendments and our basis for a Negative Declaration.

15/

Darrell G. Eisenhut, Assistant Director
for Operational Technology
Division of Operating Reactors

Enclosure:
As stated

cc: V. Stello
G. Lear
D. Neighbors
B. Grimes
E. Adensam
W. Pasciak

DISTRIBUTION:
Central Files
EEB Reading
D. Eisenhut
D. Davis

OFFICE	EEB/OT/DOR	EEB/OT/DOR	EEB/OT/DOR	AD/OT/DOR		
SURNAME	WPasciak:br	EAdensam	BGrimes	DEisenhut		
DATE	12/14/76	12/14/76	12/14/76	12/14/76		

ENCLOSURE I

AMENDMENTS TO APPENDIX B TECHNICAL SPECIFICATIONS FOR OCONEE NUCLEAR STATION AND EVALUATION

INTRODUCTION

By letters dated May 13, 1976 and September 1, 1976 the Duke Power Company requested amendments to the Oconee Nuclear Station non-radiological environmental technical specifications (Appendix B). The first proposal requested that the upper limit for pH of water discharged from the station be increased from 8.5 to 9.0. The second proposal requested that the method of control of station chemical effluents be changed from the chemical inventory program to a chemical concentration monitoring program. The changes of both proposals involve Section 1.2 and Table 1.2-1.

DISCUSSION AND EVALUATION

I. pH of discharge water:

In a letter from Duke Power Company dated September 29, 1976 the licensee described the results of a model they developed to predict the size of the area that would be affected by these high pH discharges. Their results indicate that for the worst case of mixing the alkalinity of the effluent discharge would be dispersed to 8.4 mg/l as CaCO_3 equivalent after 250 feet of mixing with the Keowee receiving waters. For the average case, the effluent alkalinity would be dispersed to 8.5 mg/l as CaCO_3 equivalent after 30 feet of mixing. The average background alkalinity of the Keowee River is 7.5 mg/l as CaCO_3 equivalent. As the size of the areas

required for dispersion to a level close to background levels is small in comparison to the thousands of acres of receiving water available in Lake Keowee and Hartwell reservoir, we judge that this change is insignificant and within levels previously analyzed.

In a letter dated December 2, 1976 the licensee submitted their dilution model. We have reviewed it and agree with the approach and its results.

II. Chemicals usage:

In the Oconee Final Environmental Statement dated March 1972, the staff described the expected chemical usage at the station. The staff adopted the expected levels as limiting conditions for operation in the present technical specifications. The FES originally presented these levels, however, for the purpose of providing background information with the recommendation that the discharge concentrations of these chemicals be monitored once the plant becomes operational to ascertain what the actual levels will be. This monitoring has been done and is reported in the semi-annual reports; no effects on the environment have been detected. Because it was not expected in the FES that the effect of these chemical releases would be detrimental to the environment and as no detrimental effects have been observed as a result of them, it is no longer necessary to keep them in the technical specifications as limiting conditions for operation. The chemicals which are deleted from the technical specification by this amendment are lithium hydroxide, sodium hydroxide, sulphuric acid, floor cleaning detergent and laundry detergent. Specifications on boron, hydrazine and pH are retained. The environmental impact

of these chemicals and parameters was discussed in Section Vc-2a of the FES, and recommendations were made for their inclusion as limiting conditions for operation in the technical specifications.

Conclusion

The changes made in this amendment are consistent with the recommendations made in the FES and the specifications are consistent with those of the NPDES permit. We conclude that the amendment does not authorize a significant change in effluents or in the impact on the environment and that a Negative Declaration is appropriate.

- 4 -

1.2 CHEMICAL DISCHARGE LIMITS

Objective

To insure that all chemical releases from the station are controlled so as to be nontoxic to aquatic organisms and non-deleterious to downstream water quality in Hartwell Reservoir.

Applicability

Applies to release of chemical effluents from the station.

Specification

- A. Limits for certain chemical wastes and pH of water released from the Waste Water Treatment System and the Low Level Radwaste System shall not exceed the concentrations indicated in Table 1.2-1, "Limits on Certain Chemicals and pH of Water Released from Oconee Nuclear Station."
- B. Chlorine or other chemical biocides will not be used for condenser cleaning.

Monitoring

The concentration of the chemicals and pH of water allowed to be released from the station under this specification shall be monitored as specified in Table 1.2-1.

Action Requirements

In the event any of the above specified limits are exceeded, a report shall be made within 24 hours by telephone to the Director of the Regional Regulatory Operations Office, followed by a written report within one week to the Director of the Regional Inspection and Enforcement Office (cc to Director of Nuclear Reactor Regulation).

The written report and to the extent possible, the preliminary telephone report, will: (a) describe, analyze and evaluate the occurrence, including extent and magnitude of the impact, (b) describe the cause of the occurrence, and (c) indicate the corrective action (including any significant changes made in procedure) taken to preclude repetition of the occurrence and to prevent similar occurrences involving similar components or systems.

Bases

Operation within the chemical monitoring and effluent limits specified in Table 1.2-1 will assure that concentrations of chemical effluents are maintained at levels that will provide adequate protection of aquatic and downstream water quality, and will assure that the water quality is not degraded beyond that described in the FES.

TABLE 1.2-1

LIMITS AND MONITORING REQUIREMENTS ON CERTAIN CHEMICALS AND pH OF
WATER RELEASED FROM OCONEE NUCLEAR STATION

Type Monitoring	Waste Water Treatment System ^a		Low Level Rad Waste System ^b	
	Frequency	Limit	Frequency	Limit
pH	Daily	6.0 - 9.0		
Hydrazine	Daily	0.7 ppm	Prior to Release	0.1 ppm
Boron			Prior to Release	1.0 ppm

^aMonitored at point of release to Hartwell Reservoir.

^bConcentrations are measured prior to point of discharge. Limits apply on downstream incremental increases in concentration in the Hartwell Reservoir following dilution in the Keowee tailrace.

FEB 03 1977

MEMORANDUM FOR: Karl R. Goller, Assistant Director for Operating Reactors, DOR

FROM: Darrell G. Eisenhut, Assistant Director for Operational Technology, DOR

SUBJECT: OCONEE - PROPOSED TECHNICAL SPECIFICATION CHANGE (TAC 06390)

PLANT NAME: Oconee, Units 1, 2 and 3
DOCKET NUMBERS: 50-269, 270, 287
RESPONSIBLE BRANCH: ORB-1
PROJECT MANAGER: D. Neighbors
REQUESTED COMPLETION DATE: 1/30/77
REVIEW STATUS: EEB - Complete

The Environmental Evaluation Branch has reviewed Item 5 of Duke Power Company's November 1, 1976 letter requesting changes to the Appendix A Technical Specifications of Oconee Units 1, 2 and 3. Item 5 pertains to the reporting requirements of anomalous measurements of radioactivity in environmental samples. The request as originally submitted was unacceptable since it did not provide for adequate reporting when potentially significant levels of radioactivity in the aquatic environment are detected at downstream population center locations. In a telephone conversation with Duke Power on this item, the licensee agreed to our proposed changes to provide adequate reporting requirements.

A safety evaluation to support an amendment to the Oconee Technical Specifications is enclosed.

Darrell G. Eisenhut, Assistant Director
for Operational Technology
Division of Operating Reactors

Enclosure: As stated

cc: V. Stello
W. Kreger
D. Neighbors
B. Grimes
L. Barrett
E. Adensam
A. Schwencer

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Contact: J. S. Bland, EEB/DOR

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SURNAME ➤	JSBland	LBarrett	BGrimes	DEisenhut		
DATE ➤	1/3/77	2/1/77	2/2/77	2/2/77		

SAFETY EVALUATION

OCONEE UNITS 1, 2 AND 3

Discussion

Item 5 of Duke Power Company's letter requesting an amendment to Appendix A Technical Specifications proposed changes in the reporting requirements for anomalous measurements of radioactivity in environmental monitoring samples. The original request has been modified (and Duke Power has agreed to these modifications) to incorporate recommendations by the NRC staff.

The amended proposed changes would:

- 1) Delete the 30-day reporting requirement when a measured level of radioactivity in any environmental medium other than those associated with radioiodine exceeds 4 times the control station value;
- 2) Change the reporting requirement level from 10 times control to 50 times control for samples in the aquatic environment upstream of the bridge on Highway 183 over the Keowee River (within the prompt dilution area).

Evaluation

- 1) The proposed deletion of a reporting requirement associated with a measured level of radioactivity in an environmental sampling medium greater than 4 times the control value is in keeping with current NRC guidelines, Regulatory Guide 4.8. In many instances the variation in background levels could result in measurements that exceed 4 times the control value. Also, these levels are of negligible dose consequence; hence, the report of such levels does not provide any useful or meaningful data.

- 2) The proposed change of reporting requirement level from 10 times control to 50 times control for aquatic samples within the prompt dilution area of the Oconee discharge does not reduce the effectiveness of the monitoring program. These samples are taken coincident with radioactive effluent releases. Consequently the levels of radioactivity measured are representative of the effluent release level after a prompt dilution in the Keowee River and are expected to be greater than 10 times control station values. Increasing the report level from 10 to 50 times control values provides adequate assurance that anomalous levels of radioactivity in aquatic samples are reported and eliminates the reporting of levels that are expected due to sampling method (coincident with effluent release) and location (prompt dilution area).

Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or a significant increase in the total amounts of effluents nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR 851.5(d)(4), that an environmental statement, negative declaration, or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

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

(1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.



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Docket No. 50-269/270 & 287

March 29, 1977

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **Duke Power Company (Oconee Nuclear Station, Units 1, 2 & 3)**
Amendments Nos. 39, 39 & 36

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.
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- ☐ Notice of Availability of NRC Draft/Final Environmental Statement.
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- ☐ Notice of Issuance of Construction Permit(s).
- ☒ Notice of Issuance of Facility Operating License(s) or Amendment(s).
- ☒ Other: Referenced documents have been sent to PDR.

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Docket No. 50-269/270 & 287

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **Duke Power Company (Oconee Units 1, 2 & 3)**
Amendments Nos. 38, 38 & 35

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Docket Nos. 50-269/270 & 287

February 17, 1977

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station, Units 1, 2 & 3)
Amendments Nos. 37, 37 & 34

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- ☐ Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
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Docket No. S. 50-269/270 & 287

February 17, 1977

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: Duke Power Company (Oconee Nuclear Station, Units 1, 2 & 3)
Amendments Nos. 36, 36 & 33

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Docket No. **50-269/270/287**

November 1, 1976

Docketing and Service Section
Office of the Secretary of the Commission

**SUBJECT: DUKE POWER COMPANY (Oconee Station, Units 1, 2 and 3)
Amendments Nos. 35, 35 & 32**

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Docket No. 50-269/270/287

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Station, Units 1, 2 and 3)
Amendments Nos. 34, 34 & 31

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Docket No.s. 50-269/270 & 287

September 16, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station, Units Nos. 1, 2 & 3)
Amendments Nos. 32, 32 & 29

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Docket No.s. **50-269/270 & 287**

August 31, 1976

Docketing and Service Section
Office of the Secretary of the Commission

**SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station Units 1, 2 & 3)
Amendments Nos. 31, 31 and 28**

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Docket No.s. 50-269/270/287

August 20, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station, Units 1, 2, & 3)

Amendments Nos. 30, 30, & 27

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.

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Docket No. **50-269/270/287**

August 9, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **DUKE POWER COMPANY (Oconee Nuclear Station, Units 1, 2, & 3)**
Amendments Nos. 29, 29, & 26

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).
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Docket No. 50-269/270/287

August 2, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station, Units Nos. 1, 2 & 3)
Amendments Nos. 28, 28, & 25

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Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: Duke Power Company (Oconee Nuclear Station Units Nos. 1, 2 & 3)
Amendments Nos. 27, 27 & 24

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July 9, 1976

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Docket No. **50-269**

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **DUKE POWER COMPANY (Oconee Nuclear Station, Unit No. 1)**

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- ☐ 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).
- ☐ Other: **Notice should be published in Register July 15, 1976. Please insert date for a 30-day intervention period on first page, 4th paragraph of the FRN and contact Terry Barnhart at 492-7433 to inform her of the date inserted. Referenced document has been provided PDR.**

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Office of Nuclear Reactor Regulation

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June 28, 1976

Docket No. 50-269/270/287

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Dconee 1, 2 and 3)
Amendments Nos. 26, 26 & 23

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- ☐ 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).
- ☐ Other: _____

Enclosure:
As Stated

Office of Nuclear Reactor Regulation

OFFICE →	DOR:ORB#1				
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

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Docket Nos. 50-269/270/287

June 24, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station)
Amendments Nos. 25, 25, and 22

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 () 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).
- ☐ Other: _____

Enclosure:
As Stated

Office of Nuclear Reactor Regulation

x27433	OFFICE →	ORB#1				
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	DATE →	6/24/76				



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

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Subject File

Docket No. 50-269/270/287

June 7, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **Duke Power Company - Oconee Nuclear Station, Units Nos. 1, 2, & 3
Amendments Nos. 24, 24, and 21**

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).
- ☐ Other: _____

Enclosure:
As Stated

Office of Nuclear Reactor Regulation

OFFICE →	ORB#1					
x27433 SURNAME →	SSheppard:tb					
DATE →	6/7/76					

[Docket Nos. 50-254 and 50-265]

COMMONWEALTH EDISON CO. AND IOWA-ILLINOIS GAS AND ELECTRIC CO.**Issuance of Amendments to Facility Operating Licenses**

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 27 and 25 to Facility Operating License Nos. DPR-29 and DPR-30 (respectively), issued to Commonwealth Edison Company (acting for itself and on behalf of the Iowa-Illinois Gas and Electric Company), which revised Technical Specifications for operation of the Quad Cities Station Units 1 and 2 (the facilities) located in Rock Island County, Illinois. The amendments are effective as of their date of issuance.

The amendments modify the use of existing isolation valves which serve as part of the new nitrogen recirculation system.

The application for these 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 determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of the amendments.

For further details with respect to this action, see (1) the application for these amendments dated April 12, 1976, and a related filing dated March 12, 1976, (2) Amendment Nos. 27 and 25 to License Nos. DPR-29 and DPR-30, and (3) the Commission's concurrently issued related Safety Evaluation. 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 Moline Public Library, 504-17th Street, Moline, Illinois 60625. A single 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 Operating Reactors.

Dated at Bethesda, Maryland, this 16th day of April, 1976.

For the Nuclear Regulatory Commission.

DENNIS L. ZIEMANN,
Chief, Operating Reactors
Branch No. 2, Division of Operating Reactors.

[FR Doc.76-11897 Filed 4-23-76;8:45 am]

[Docket Nos. 50-269, 50-270, and 50-287]

DUKE POWER CO.**Issuance of Amendments to Facility Operating Licenses**

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendments No. 23, 23, and 20 to Facility Operating Licenses No. DPR-38, DPR-47, and DPR-55, respectively, issued to Duke Power Company which revised Technical Specifications for operation of the Oconee Nuclear Station, Units 1, 2, and 3, located in Oconee County, South Carolina. The amendments are effective as of the date of issuance.

These amendments allow the removal of the reactor vessel surveillance capsules from the Oconee Unit 3 reactor for a portion of Cycle 1 operation.

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 is not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to the action, see (1) the application for amendment dated March 22, 1976, (2) Amendments No. 23, 23, and 20 to Licenses No. DPR-38, DPR-47, and DPR-55, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. 20555, and at the Oconee County Library, 201 South Spring Street, Walhalla, South Carolina 29691.

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 Operating Reactors.

Dated at Bethesda, Maryland, this 16th day of April 1976.

For the Nuclear Regulatory Commission.

ROBERT A. PURPLE,
Chief, Operating Reactors
Branch No. 1 Division of Operating Reactors.

[FR Doc.76-11895 Filed 4-23-76;8:45 am]

[Docket No. 50-334]

DUQUESNE LIGHT CO., ET AL.**Issuance of Amendment to Facility Operating License**

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 2 to Facility Operating License No. DPR-66, issued to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company which revised Technical Specifications for operation of the Beaver Valley Power Station, Unit No. 1, located in Beaver County, Pennsylvania. The amendment is effective as of its date of issuance.

The amendment revises portions of Technical Specifications and consists of: (1) allowing dye penetrant test method of inspection of certain components lieu of the ultrasonic test method, clarification of the method of evaluation of the nuclear core radial peaking factor, (3) a more practicable measurement of the specific gravity of individual battery cells, (4) addition of a new specification on surveillance of hydraulic snubbers, addition of a new specification to all no flow tests, (6) a revised specification to allow a safer method of surveillance of the containment air lock doors, and (7) correction of typographical errors and/or omissions.

The application for the amendment 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 amendment. Prior public notice of the amendment is not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated January 26, 1976, (2) Amendment No. 2 to License No. DPR-66, and (3) the Commission's related Safety Evaluation. 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 the Beaver Valley Memorial Library, 1 College Avenue, Beaver, Pennsylvania.

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 Project Management.

Light Company, et al. (Applicants) and the Regulatory Staff of the Commission. Since the time of that recess, the Atomic Safety and Licensing Board has received interim reports from the parties respecting the preparation of data and readiness to proceed to further hearings. The Board has been advised that in addition to a prehearing conference on May 12, 1976, the parties are ready to proceed at two evidentiary sessions, separated necessarily by a recess due to previous commitments by attorneys in other cases. The parties have stipulated for readiness on a session June 2 through June 4, 1976, and a second session July 7 through July 16, 1976.

The Board suggests to the parties that Saturday, June 5th, and Saturday, July 17th, also be included.

The Board finds that developments and progress by the parties in preparation of data provide good cause for designating firm dates for two further evidentiary hearings, the first to convene on June 2, 1976, and the second to convene on July 7, 1976.

Wherefore, it is ordered, in accordance with the Atomic Energy Act, as amended, and the Rules of Practice of the Nuclear Regulatory Commission that two sessions of evidentiary hearings shall convene in this proceeding as follows:

1. The first of the resumed sessions of evidentiary hearings shall convene at 9:00 a.m. on Wednesday, June 2, 1976, in Courtroom 2866.

2. The second of the resumed sessions of evidentiary hearings shall convene at 9:00 a.m. on Wednesday, July 7, 1976 in Courtroom 3086.

Both sessions of the resumed evidentiary hearings shall convene on the afore said times, dates and courtrooms in the New Federal Building, 915 Second Avenue, Seattle, Washington 98174.

Issued: April 16, 1976, Bethesda, Maryland.

ATOMIC SAFETY AND LICENSING BOARD,
SAMUEL W. JENSCH,
Chairman.

[FR Doc. 76-11521 Filed 4-21-76; 8:45 am]

[Docket Nos. STN 50-522, STN 50-523]

PUGET SOUND POWER AND LIGHT CO., ET AL.

Order Convening Special Prehearing Conference

In the matter of Puget Sound Power and Light Co., Portland General Electric Co., Pacific Power and Light Co., and The Washington Water Power Co.

The Atomic Safety and Licensing Board has heretofore issued an additional Notice of Hearing in this proceeding related to the application by Portland General Electric Company to become a party to this proceeding, and to be substituted as part facility owner in lieu of Washington Public Power Supply System. The Notice also provided for persons not presently parties to participate

in the proceeding in accordance with the Rules of Practice of the Commission. The Rules permit participation either by way of formal intervention or by way of presentation of statements through a process identified as limited appearance. In response to the Amended Notice of Hearing, two filings have been made, one a described petition to intervene by Coalition for Safe Power (CFSP) and Forelaws on Board (FOB) and, a second, a letter which states that it is a petition to intervene, signed by Al Bailey, which contains certain descriptive material of interest in the proceeding and many assertions stated to be contentions. Neither the stated petition nor letter has been verified in the form required by the Rules of Practice.

The Answers to the foregoing filings which have been made by the Applicants (Puget Sound Power and Light Company, et al.) and the Regulatory Staff set forth various objections as to form and alleged lack of specificity in asserted contentions and other considerations, principally directed to the fact that the Amended Notice of Hearing provides for participation by parties related solely to the additional issues raised by the application of Portland General Electric Company to become a party applicant in this proceeding. Both the Applicants and the Regulatory Staff request that a prehearing conference be convened to consider the scope and interest of the persons submitting the filings seeking participation.

The Applicants assert that the ruling of the Appeal Board in re Cincinnati Gas and Electric Company (ALAB-305), slip op. on page 8 indicates the desirability of convening a special prehearing conference to consider all requests to intervene before issuing rulings on the alleged petitions. ALAB refers to the special prehearing conference as a necessity and presumably any rulings without the conference would be prima facie invalid. While many of the objections could be considered before a special prehearing conference, the variance in suggestions from parties in many of the proceedings respecting asserted petitions (the Staff herein has suggested that the Bailey letter petition be denied without a special prehearing conference) and the flexibility urged to permit corrections to and additions to the said petitions persuades this Board to convene a special prehearing conference.

The Atomic Safety and Licensing Board, in accordance with the Rules of Practice of the Commission, has inquired of the existing parties respecting a convenient date to convene a prehearing conference and has determined that Wednesday, May 12, 1976 is convenient.

Wherefore, it is ordered, in accordance with the Atomic Energy Act, as amended, and the Rules of Practice of the Commission, particularly 10 CFR Section 2.751a, that a special prehearing conference in this proceeding shall convene at 9:00 a.m. on Wednesday, May 12, 1976 in Courtroom 3086 of the New Fed-

eral Building, 915 Second Avenue, Seattle, Washington 98174, to consider the filings made by Coalition for Safe Power and Forelaws on Board, and by Al Bailey seeking permission to participate as intervenors in this proceeding. This special prehearing conference shall consider the items specified for consideration by 10 CFR Section 2.751a.

Issued: April 15, 1976, Bethesda, Maryland.

ATOMIC SAFETY AND LICENSING BOARD,
SAMUEL W. JENSCH,
Chairman.

[FR Doc. 76-11523 Filed 4-21-76; 8:45 am]

[Docket Nos. 50-338 OL, 50-393 OL]

VIRGINIA ELECTRIC AND POWER CO.

Order

A petition in intervention has been filed herein by Sun Shipbuilding and Dry Dock Company. The Applicant opposes the petition and the Staff feels the petition insufficient. The Board is of the opinion that oral argument by the parties would be helpful to resolve the issue. Accordingly,

It is ordered that a prehearing conference will be held at 2 p.m. on May 7, 1976, in the NRC Hearing Room, 4350 East West Highway, 5th Floor, Bethesda, Maryland, to consider matters set forth in 10 CFR Section 2.751a with particular emphasis on the petition to intervene heretofore described.

Dated at Bethesda, Maryland, this 16th day of April 1976.

For the Atomic Safety and Licensing Board.

FREDERIC J. COUFAL,
Chairman.

[FR Doc. 76-11524 Filed 4-21-76; 8:45 am]

[Docket Nos. 50-269, 50-270, and 50-287]

DUKE POWER CO.

Issuance of Amendments to Facility Operating Licenses

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 22, 22., and 19 to Facility Operating License Nos. DPR-38, DPR-47, and DPR-55, respectively, issued to Duke Power Company which revised Technical Specifications for operation of the Oconee Nuclear Station, Units 1, 2, and 3, located in Oconee County, South Carolina. The amendments are effective as of their dates of issuance.

The amendments permit a revision in the methods utilized to monitor fish impingement.

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 Commis-

sion's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments is not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendment dated May 20, 1975, and (2) Amendment Nos. 22, 22, and 19 to License Nos. DPR-38, DPR-47, and DPR-55, respectively. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street NW., Washington, D.C., and at the Oconee County Library, 201 South Spring Street, Walhalla, South Carolina.

A copy of items 2 may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 9th day of April 1976.

For the Nuclear Regulatory Commission.

ROBERT A. PURPLE,
Chief, Operating Reactors
Branch 1, Division of Operating Reactors.

[FR Doc.76-11276 Filed 4-21-76;8:45 am]

[Docket No. 50-541]

GENERAL ATOMIC COMPANY

Issuance of Facility Export License

Please take notice that no request for a hearing or a petition for leave to intervene having been filed following publication of notice of proposed action in the FEDERAL REGISTER on August 18, 1975 (40 FR 160) and the Nuclear Regulatory Commission having found that:

(a) The application filed by General Atomic Company Docket No. 50-541, complies with the requirements of the Act, and the Commission's regulations set forth in Title 10, Chapter I, Code of Federal Regulations, and

(b) The reactor proposed to be exported is a utilization facility as defined in said Act and regulations,

the Commission has issued License No. XR-108 to General Atomic Company, San Jose, California, authorizing the export of a research reactor with a thermal power level of 250 kilowatts to the Technical University of Istanbul, Istanbul, Turkey.

The export of this reactor to Turkey is within the purview of the present Agreement for Cooperation Between the Government of the United States of America and the Government of Turkey Concerning Civil Uses of Atomic Energy.

Dated at Bethesda, Maryland, this 12th day of April, 1976.

For the Nuclear Regulatory Commission.

G. WAYNE KERR,
Chief, Agreements and Exports
Branch Division of Fuel Cycle
and Material Safety.

[FR Doc.76-11275 Filed 4-21-76;8:45 am]

[Docket No. 50-321]

GEORGIA POWER CO. AND OGLETHORPE ELECTRIC MEMBERSHIP CORP.

Issuance of Amendment to Facility Operating License

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 30 to Facility Operating License No. DPR-57 issued to Georgia Power Company and Oglethorpe Electric Membership Corporation, which revised Technical Specifications for operation of the Edwin I. Hatch Nuclear Plant, Unit 1, located in Appling County, Georgia. The amendment is effective as of its date of issuance.

The amendment consists of changes to the Technical Specifications which will clarify instrumentation operability requirements during periods of functional testing and calibration.

The application for the amendment 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 amendment. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated February 18, 1976, (2) Amendment No. 30 to License No. DPR-57 and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street NW., Washington, D.C., and at the Appling County Public Library, Parker Street, Baxley, Georgia 31513.

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 Operating Reactors.

Dated at Bethesda, Maryland, this 13th day of April 1976.

For The Nuclear Regulatory Commission.

WALTER A. PAULSON,
Acting Chief, Operating Reactors
Branch Number 3, Division of Operating Reactors.

[FR Doc.76-11272 Filed 4-21-76;8:45 am]

[Docket No. 50-219]

JERSEY CENTRAL POWER AND LIGHT CO. Consideration of Proposed Modification to Facility Spent Fuel Storage Pool

The Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Provisional Operating License No. DPR-16 issued to Jersey Central Power & Light Company (the licensee), for operation of the Oyster Creek Nuclear Generating Station, located in Ocean County, New Jersey.

In accordance with the licensee's application for license amendment dated March 18, 1976, the proposed amendment would add revisions to the Technical Specifications relating to the use of new spent fuel storage racks. The proposed revisions to the Technical Specifications would allow a closer design center-to-center spacing between stored fuel assemblies by modifying the specified effective neutron multiplication factor. The proposed modifications would increase the spent fuel storage capacity from 840 to 1800 fuel assemblies.

Prior to issuance of the proposed license amendment, the Commission will have made the findings required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations.

By May 24, 1976, the licensee may file a request for a hearing and any person whose interest may be affected by this proceeding may file a request for a hearing in the form of a petition for leave to intervene with respect to the issuance of the amendment to the subject provisional operating license. Petitions for leave to intervene must be filed under oath or affirmation in accordance with the provisions of Section 2.714 of 10 CFR Part 2 of the Commission's regulations. A petition for leave to intervene must set forth the interest of the petitioner in the proceeding, how that interest may be affected by the results of the proceeding, and the petitioner's contentions with respect to the proposed licensing action. Such petitions must be filed in accordance with the provisions of this FEDERAL REGISTER notice and Section 2.714, and must be filed with the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Docketing and Service Section, by the above date. A copy of the petition and/or request for a hearing should be sent to the Executive Legal Director, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, and to G. F. Trowbridge, Esquire, Shaw, Pittman, Potts and Trowbridge, Barr Building, 910 17th Street NW., Washington, D.C., the attorney for the licensee.

A petition for leave to intervene must be accompanied by a supporting affidavit which identifies the specific aspect or aspects of the proceeding as to which intervention is desired and specifies with particularity the facts on which the petitioner relies as to both his interest and his contentions with regard to each aspect on which intervention is requested. Petitions stating contentions re-



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

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April 16, 1976

Docket No. 50-269/270/287

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Nuclear Station, Units 1, 2, & 3)
Amendments No. X 23, 23, & 20

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).
- ☐ Other: _____

Office of Nuclear Reactor Regulation

Enclosure:
As Stated

OFFICE →	ORB#1					
SURNAME →	SMSheppard: 1b					
DATE →	4/16/76					

[Docket Nos. 50-269, 50-270, and 50-287]

DUKE POWER CO.

Issuance of Amendments to Facility Operating Licenses

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendments No. 21, 21, and 18 to Facility Operating Licenses No. DPR-38, DPR-47, and DPR-55, respectively, issued to Duke Power Company which revised Technical Specifications for operation of the Oconee Nuclear Station, Units 1, 2, and 3, located in Oconee County, South Carolina. The amendments are effective as of the date of issuance.

These amendments allow the removal of the reactor vessel surveillance capsules from the Oconee Unit 1 reactor during Cycle 3 operation.

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 is not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to the action, see (1) the application for amendment dated March 16, 1976; (2) Amendments No. 21, 21, and 18 to Licenses No. DPR-38, DPR-47, and DPR-55, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C. 20555, and at the Oconee County Library, 201 South Spring Street, Walhalla, South Carolina 29691.

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 Operating Reactors.

Dated at Bethesda, Maryland, this 26th day of March 1976.

For the Nuclear Regulatory Commission,

ROBERT A. PURPLE,
Chief, Operating Reactors
Branch No. 1, Division of
Operating Reactors.

[FR Doc.76-9575 Filed 4-2-76; 8:45 am]

[Docket No. 50-244]

ROCHESTER GAS AND ELECTRIC CORP.

Issuance of Amendment to Provisional Operating License

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the

Commission) has issued Amendment No. 10, to Provisional Operating License No. DPR-18 issued to Rochester Gas and Electric Corporation (the licensee) which revised the Technical Specifications for operation of the R. E. Ginna Nuclear Power Plant located in Wayne County, New York. The amendment is effective as of its date of issuance.

The amendment changes the Technical Specifications to revise the core thermal limits curve based on the application of the approved, updated Westinghouse model for fuel densification and clad flattening, a revision in the overpower ΔT and overtemperature ΔT set points, a deletion of the allowance for relaxing end-of-life control rod insertion limits, and revised shutdown margin requirements based on a reanalysis of the main steam line break accident.

The applications for the amendment comply 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 amendment. Notice of Proposed Issuance of Amendment to Provisional Operating License in connection with this action was published in the FEDERAL REGISTER on April 10, 1975 (40 F.R. 16249). No request for a hearing or petition for leave to intervene was filed following notice of the proposed action.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration, or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the applications for amendment dated March 27, and September 22, 1975, (2) Amendment No. 10 to License No. DPR-18, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C. 20555 and at the Lyons Public Library, 67 Canal Street, Lyons, New York 14489 and at the Rochester Public Library, 115 South Avenue, Rochester, New York 14627.

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 Operating Reactors.

Dated at Bethesda, Maryland, this 30th day of March 1976.

For the Nuclear Regulatory Commission,

ROBERT A. PURPLE,
Chief, Operating Reactors
Branch No. 1, Division of
Operating Reactors.

[FR Doc.76-9576 Filed 4-2-76; 8:45 am]

CLEVELAND ELECTRIC ILLUMINATING COMPANY, ET AL. (PERRY NUCLEAR POWER PLANT, UNITS 1 AND 2)

[Docket Nos. 50-440, 50-441]

For the Atomic Safety and Licensing Board.

Dated at Bethesda, Maryland, this 31st day of March 1976.

Notice of Postponement of Hearing

The hearing previously scheduled for April 1, 1976, in the above-entitled proceeding has been rescheduled, by stipulation of the parties, to April 9, 1976, at 10:00 a.m., in Room 2069, Federal Building, 1240 East 9th Street, Cleveland, Ohio 44119.

JOHN M. FRYSIK,
Chairman.

[FR Doc.76-9680 Filed 4-2-76; 9:45 am]

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS SUBCOMMITTEE ON WASTE MANAGEMENT

Meeting

In accordance with the purposes of Sections 29 and 182b. of the Atomic Energy Act (42 U.S.C. 2039, 2232 b.), the ACRS Subcommittee on Waste Management will meet on April 22, 1976 in Room 1046, 1717 H Street, N.W., Washington, DC 20555. This meeting will be closed to the public.

The Subcommittee will meet in closed session with its consultants, members of the NRC Staff and NRC Staff consultants to exchange opinions and discuss preliminary views and recommendations related to the NRC Waste Management Program. In connection with this matter, the Subcommittee may hold executive sessions not open to the public or NRC Staff prior to and at the conclusion of the meeting with the NRC Staff and NRC Staff consultants to exchange opinions and formulate recommendations to the full Committee.

Persons wishing to submit written statements regarding the agenda may do so by sending a readily reproducible copy in time for consideration at this meeting. Comments postmarked no later than April 15, 1976, to Mr. R. Muller, ACRS, NRC, Washington, DC 20555 will normally be received in time to be considered at this meeting.

I have determined in accordance with Subsection 10(d) of Public Law 92-463 that it is necessary to close this meeting which will consist of an exchange of opinions and preliminary positions, the discussion of which, if written, would fall within exemption 5 of 5 U.S.C. 552 (b)(5) and to protect confidential, proprietary, or plant security information (5 U.S.C. 552(b)(4)). Separation of factual material from individuals' advice, opinions, and recommendations while this meeting is in progress is considered impractical. It is essential to close this meeting to protect the free interchange of internal views and to avoid undue

[Docket Nos. 50-269, 50-270 and 50-287]

DUKE POWER CO.**Issuance of Amendments to Facility Operating Licenses**

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendments No. 20, 20 and 17 to Facility Operating Licenses No. DPR-38, DPR-47 and DPR-55, respectively, issued to Duke Power Company which revised Technical Specifications for operation of the Oconee Nuclear Station, Units 1, 2 and 3, located in Oconee County, South Carolina. The amendments are effective as of their date of issuance.

These amendments (1) revise the Technical Specifications to establish operating limits for Unit 1 cycle 3 operation based upon an acceptable Emergency Core Cooling System evaluation model conforming to the requirements of 10 CFR 50.46, (2) terminate the operating restrictions imposed on Unit 1 by the Commission's December 27, 1974 Order for Modification of License and (3) revise the Technical Specifications to specify quadrant power tilt limits for Units 1, 2 and 3 independent of the measurement system used.

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.

Notice of Proposed Issuance of Amendment to Facility Operating License No. DPR-38 in connection with Unit 1 Cycle 3 reload was published in the FEDERAL REGISTER on February 5, 1976 (41 FR 5354). No request for a hearing or petition or leave to intervene was filed following notice of the proposed action.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendment dated December 1, 1975, as supplemented February 24 and 27, 1976, (2) Amendments No. 20, 20, and 17 to Licenses No. DPR-38, DPR-47, and DPR-55, (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street NW., Washington, D.C. and at the Oconee County Library, 201 South Spring Street, Walhalla, South Carolina 29691.

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 Operating Reactors.

Dated at Bethesda, Maryland, this 25th day of March 1976.

For the Nuclear Regulatory Commission,

ROBERT A. PURPLE,
Chief, Operating Reactors
Branch #1, Division of Operating Reactors.

[FR Doc.76-9296 Filed 3-31-76; 8:45 am]

[Docket No. 50-335]

FLORIDA POWER AND LIGHT CO.**(ST. LUCIE PLANT NO. 1)****Issuance of Amendment to Facility Operating License**

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 2 to Facility Operating License No. DPR-67 issued to Florida Power and Light Company. The amendment revises the Technical Specifications for operation of the St. Lucie Plant Unit No. 1 located in St. Lucie County, Florida, and is effective as of its date of issuance.

The amendment suspends the Technical Specification which requires the operability of a valve on containment penetration No. 54 until the first refueling outage. Until the first refueling outage, the valve will not be installed. During this time, the penetration will be sealed by two blind flanges, which meet the leakage acceptance criteria of 10 CFR Part 50, Appendix J.

The application for the amendment 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 required by the Act and the Commission's rules and regulations in 10 CFR Chapter I. These findings are set forth in the license amendment. Prior public notice of this amendment is not required because the amendment does not involve a significant hazards consideration.

For further details with respect to this action, see (1) the application for amendment dated March 18, 1976, (2) Amendment No. 2 to license No. DPR-67, and (3) the Commission's related safety evaluation. 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 Indian River College Library, 3209 Virginia Avenue, Ft. Pierce, Florida 33450. 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 Project Management.

Dated at Bethesda, Maryland this 23rd day of March 1976.

For the Nuclear Regulatory Commission,

OLAN D. PARR,
Chief, Light Water Reactors
Branch No. 3, Division of Project Management.

[FR Doc.76-9297 Filed 3-31-76; 8:45 am]

[Docket No. 50-315]

INDIANA AND MICHIGAN ELECTRIC AND INDIANA AND MICHIGAN POWER CO.**Issuance of Amendment to Facility Operating License**

Notice is hereby given that the Nuclear Regulatory Commission (the Commission) has issued Amendment No. 13 to Facility Operating License No. DPR-58 issued to Indiana and Michigan Electric Company and Indiana Michigan Power Company which revised Technical Specifications for operation of the Donald C. Cook Nuclear Plant, No. 1, located in Berrien County, Michigan. The amendment is effective as of its date of issuance.

The amendment revised the provisions in the Technical Specifications relating to groundwater sampling. The revision delete the requirement for an electric flow detector and substitute determination of the flow velocity and direction from the results of pumping tests. The observation of the wells. The testing procedures are also revised.

The application for the amendment 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 amendment. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated October 24, 1975, (2) Amendment No. 13 to License No. DPR-58. 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 Maude Preston Paleske Memorial Library, 500 Market Street, St. Joseph, Michigan 49085.

A copy of item (2) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Division of Site Safety and Environmental Analysis, Washington, D.C. 20555.

Dated at Rockville, Maryland, this 26th day of March 1976.

For the Nuclear Regulatory Commission,

GEORGE W. KNIGHTON,
Chief, Environmental Protection
Branch No. 1, Division of Site Safety and Environmental Analysis.

[FR Doc.76-9298 Filed 3-31-76; 8:45 am]



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

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Docket No. **50-269/270/287**

March 30, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **DUKE POWER COMPANY (Oconee Units 1, 2 and 3)
Amendments Nos. 20, 21, and 18**

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).
- ☐ Other: _____

Enclosure:
As Stated

Office of Nuclear Reactor Regulation

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DATE →	3/30/76					

1717 H Street, N.W., Washington, D.C., and at the Clermont County Library, Batavia, Ohio. The Safety Evaluation and the Final Environmental Statement, when issued, may be inspected at the above locations and a copy may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Operating Reactors.

Papers required to be filed in this proceeding may be filed by mail or telegram addressed to the Secretary of the Commission, United States Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Chief, Docketing and Service Section, Room 1015, or may be filed by delivery to the Commission's Public Document Room, 1717 R Street, N.W., Washington, D.C. 20555.

Pending further order of the hearing board designated for this proceeding, parties are required to file, pursuant to the provisions of 10 CFR Section 2.708 of the Commission's Rules of Practice, an original and twenty (20) conformed copies of each such paper with the Commission.

Wherefore, it is ordered, in accordance with the Atomic Energy Act, as amended, and the Rules of Practice of the Nuclear Regulatory Commission, that a public evidentiary hearing in this proceeding shall convene to consider the accepted contentions asserted in the petitions to intervene which have been granted, and shall convene at a time and place later to be designated by the Board.

Issued: March 19, 1976, Bethesda, Maryland.

ATOMIC SAFETY AND LICENSING BOARD,
SAMUEL W. JENSCH,
Chairman.

[FR Doc.76-8291 Filed 3-24-76; 8:45 am]

[Docket No. 50-254]

COMMONWEALTH EDISON CO.
Issuance of Amendment to Facility Operating License

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 25 to Facility Operating License No. DPR-29, issued to Commonwealth Edison Company (acting for itself and on behalf of the Iowa-Illinois Gas and Electric Company), which revised Technical Specifications for operation of the Quad Cities Nuclear Power Station Unit 1 located in Rock Island County, Illinois. The amendment is effective as of its date of issuance.

The amendment (1) authorizes operation with additional 8 x 8 fuel assemblies and (2) incorporates operating limits in the Technical Specifications for the facility based on an acceptable evaluation model that conforms with the requirements of Section 50.46 of 10 CFR Part 50.

The applications for the amendment comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Com-

mission'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 amendment. Notice of Proposed Issuance of Amendment to Facility Operating License in connection with item (2) above was published in the FEDERAL REGISTER on September 5, 1975 (40 FR 41197). No request for a hearing or petition for leave to intervene was filed following notice of the proposed action on item (2) above. Prior public notice of item (1) above is not required since the amendment does not involve a significant hazards consideration.

In connection with the issuance of this amendment, the Commission has issued a Negative Declaration and Environmental Impact Appraisal.¹

For further details with respect to this action, see (1) the applications for amendments dated July 1, 1975 and December 23, 1975 and supplements thereto dated July 7, 1975, September 19, 1975, November 6, 1975, February 4, 1976, February 6, 1976 and March 5, 1976, (2) Amendment No. 25 to License No. DPR-29, (3) the Commission's concurrently issued related Safety Evaluation, and (4) the Commission's Declaration dated March 10, 1976 (which is also being published in the FEDERAL REGISTER), and associated 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 Moline Public Library at 504 17th Street, Moline, Illinois 61265. A single copy of items (2), (3) and (4) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 12th day of March, 1976.

For the Nuclear Regulatory Commission.

RICHARD D. SILVER,
Acting Chief, Operating Reactors Branch No. 2, Division of Operating Reactors.

[FR Doc.76-8292 Filed 3-24-76; 8:45 am]

[Docket Nos. 50-269, 50-270, and 50-287]

DUKE POWER CO.

Issuance of Amendments to Facility Operating Licenses

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendments No. 18, 18, and 16 to Facility Operating Licenses No. DPR-38, DPR-47, and DPR-55, respectively, issued to Duke Power Company which revised the licenses for operation of the Oconee Nuclear Station, Units 1, 2, and 3, located in Oconee County, South Carolina. The amendments are effective as of the date of issuance.

¹ Filed as part of the original document.

These amendments change the wording of condition 2.E of the licenses to permit the transfer of byproduct and special nuclear material between each of the three Oconee units.

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 is not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR § 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendment dated February 5, 1976, (2) Amendments No. 18, 18, and 16 to License Nos. DPR-38, DPR-47, and DPR-55, respectively, and (3) the Commission's related Safety Evaluation. 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, 201 South Spring Street, Walhalla, South Carolina 29691.

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 Operating Reactors.

Dated at Bethesda, Maryland, this 15th day of March 1976.

For the Nuclear Regulatory Commission.

CHARLES M. TRAMMELL,
Acting Chief, Operating Reactors Branch No. 1, Division of Operating Reactors.

[FR Doc.76-8293 Filed 3-24-76; 8:45 am]

[Docket Nos. STN 50-488, 50-489, 50-490]

DUKE POWER CO. (PERKINS NUCLEAR STATION, UNITS 1, 2 AND 3)

Order for Prehearing Conference

The Atomic Safety and Licensing Board will hold a prehearing conference on April 5, 1976, at 11 a.m. in the Conference Room on the first floor of the Old YWCA Building at 217 West Jones Street, Raleigh, N.C. The parties or their counsel will appear to consider:

1. Simplification, clarification, and specification of the issues;
2. The necessity or desirability of amending the pleadings;
3. The obtaining of stipulations and admissions of fact and of the content, and authenticity of documents to avoid unnecessary proof;
4. Identification of witnesses and the limitation of the number of expert wit-



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WASHINGTON, D.C. 20555

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Docket No. 50-269/270/287

March 26, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: DUKE POWER COMPANY (Oconee Units 1, 2 and 3)
Amendments Nos. 20, 20, and 17

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).
- ☐ Other: _____

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Office of Nuclear Reactor Regulation

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Docket No. 50-269/270/287

March 18, 1976

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: Duke Power Company (Oconee Nuclear Station, Units 1, 2, and 3)
Amendments No. 18, 18, and 16, respectively

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).
- ☐ Other: _____

Office of Nuclear Reactor Regulation

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Office of the Secretary of the Commission

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Notice as follows:

UNITED STATES NUCLEAR REGULATORY COMMISSION

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Twelve copies of the above notice are also enclosed for your use
and distribution to the Public Document Room.

Ima
Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Operating Reactors

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January 28, 1976

Chase R. Stephens, Docketing & Service Section
Office of the Secretary of the Commission

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Enclosed for your transmission to the Office of the Federal Register for filing and publication are two originals of a Federal Register Notice as follows:

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-269

DUKE POWER COMPANY

NOTICE OF PROPOSED ISSUANCE OF AMENDMENT
TO FACILITY OPERATING LICENSE

Twelve copies of the above notice are also enclosed for your use and distribution to the Public Document Room.

Original signed by:
Robert A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Operating Reactors

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UNITED STATES NUCLEAR REGULATORY COMMISSION

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

and

NEGATIVE DECLARATION

REGARDING PROPOSED CHANGES TO THE

TECHNICAL SPECIFICATIONS OF

LICENSE NO. DPR-55

OCONEE NUCLEAR STATION UNIT 3

DOCKET NUMBER 50-287

Twelve copies of the above notices are also enclosed for your use and distribution to the Public Document Room.

LSI

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

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Office of the Secretary of the Commission

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UNITED STATES NUCLEAR REGULATORY COMMISSION

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Twelve copies of the above notice are also enclosed for your use and
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Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

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Office of the Secretary of the Commission

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS (50-269), 50-270, AND 50-287

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Twelve copies of the above notice are also enclosed for your use and distribution to the Public Document Room.

Shirley M. Sheppard

Robert A. Purple, Chief
FOR/ Operating Reactors Branch #1
Division of Reactor Licensing

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UNITED STATES NUCLEAR REGULATORY COMMISSION

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

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Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

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DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

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Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Twelve copies of the above notice are also enclosed for your use and
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Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

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Chase R. Stephens, Docketing and Service Section
Office of the Secretary of the Commission

FEDERAL REGISTER NOTICE

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS. 50-260, 50-270, AND 50-287

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

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Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

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DATE >	11/4/75	11/.75				

OCT 15 1975

Chase R. Stephens, Docketing and Service Section
Office of the Secretary of the Commission

FEDERAL REGISTER NOTICE

Enclosed for your transmission to the Office of the Federal Register for filing and publication are two signed originals of a Federal Register Notice as follows:

UNITED STATES NUCLEAR REGULATORY COMMISSION

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

DUKE POWER COMPANY

(Oconee Units 1, 2, and 3)

NOTICE OF PROPOSED ISSUANCE OF AMENDMENTS TO
FACILITY OPERATING LICENSES

Twelve copies of the above notice are also enclosed for your use and distribution to the Public Document Room.

Please insert a date on the first line of the fourth paragraph on the first page of this notice for a 30-day intervention period and call Debbie Corley on x-7433 to inform her of the date inserted.

Original signed by
R. A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosures:
As stated

DISTRIBUTION
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ORB#1 Reading
SMSheppard

OFFICE ➤	RL:ORB#1	RL:ORB#1				
SURNAME ➤	SMSheppard:dc	RAPurple				
DATE ➤	10/15/75	10/ /75				

50-269
Sept 2, 1975

SEP 02 1975

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

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Shirley M. Sheppard
for 15

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosures:
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SMSheppard

Memo
2

OFFICE ▶	DRL:ORB#1					
SURNAME ▶	<i>sm</i> SMSheppard:1b					
DATE ▶	09/02/75					

AUG 19 1975

Chase R. Stephens, Docketing and Service Section
Office of the Secretary of the Commission

FEDERAL REGISTER NOTICE

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DUKE POWER COMPANY
(Oconee Units 1, 2 & 3)

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

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distribution to the Public Document Room.

15/ Shirley M. Sheppard
for
Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosures:
As stated

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SMSheppard

OFFICE ➤	RL:ORB#1	RL:ORB#1				
SURNAME ➤	SMSheppard:de	RAPurple				
DATE ➤	8/19/75	8/19/75				

AUG 5 1975

Chase R. Stephens, Docketing & Service Section
Office of the Secretary of the Commission

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DUKE POWER COMPANY

NOTICE OF PROPOSED ISSUANCE OF AMENDMENTS
TO FACILITY OPERATING LICENSES

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for *Shirley M. Sheppard*
Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosures:
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Please insert date for a 30-day intervention period on page 2, paragraph 2, first line of the FRN and contact Lee Berry X-7434 to inform her of the date inserted.

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SMSheppard

OFFICE	RL:ORB#1					
SURNAME	SMSheppardL;b					
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JUL 17 1975

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S.M. Sheppard

for Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosures:
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151
Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosures:
As stated

memo
2

OFFICE ➤	RL:ORB#1	RL:ORB#1				
SURNAME ➤	SMSheppard:dc	WRAPurple				
DATE ➤	2/25/75	2/25/75				

DEC 31 1974

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EGculbourne
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Chase R. Stephens, Docketing and Service Section
Office of the Secretary

ORDERS FOR PUBLICATION IN THE FEDERAL REGISTER

Two signed originals of each of the Orders and Notices of Availability (without Technical Specification changes) relating to fuel densification for the following plants are enclosed for your transmittal to the Office of the Federal Register for filing and publication.

<u>Docket No.</u>	<u>Utility</u>	<u>Plant</u>
50-29	Yankee Atomic Electric Company	Yankee
50-219	Jersey Central Power & Light Company	Oyster Creek
50-220	Niagara Mohawk Power Corporation	Nine Mile Point 1
50-237	Commonwealth Edison Company	Dresden 2
{ 50-249	Commonwealth Edison Company	Dresden 3
50-247	Rochester Gas & Electric Company	Cinna
50-245	The Connecticut Light & Power Company et. al.	Hillstone 1
50-247	Consolidated Edison of New York Inc.	Indian Point 2
{ 50-250	Florida Power & Light Company	Turkey Point 3
50-251	Florida Power & Light Company	Turkey Point 4
{ 50-254	Commonwealth Edison Company	Quad Cities 1
50-255	Commonwealth Edison Company	Quad Cities 2
50-255	Consumers Power Company	Palisades
{ 50-259	Tennessee Valley Authority	Browns Ferry 1
50-260	Tennessee Valley Authority	Browns Ferry 2
50-261	Carolina Power & Light Company	H.B. Robinson 2
50-263	Northern States Power Company	Monticello
{ 50-266	Wisconsin Electric Power Company et. al.	Point Beach 1
50-301	Wisconsin Electric Power Company et. al.	Point Beach 2
50-271	Vermont Yankee Nuclear Power Corp.	Vermont Yankee
50-277	Philadelphia Electric Company	Peach Bottom 2
{ 50-278	Philadelphia Electric Company	Peach Bottom 3
50-280	Virginia Electric & Power Company	Surry 1
{ 50-281	Virginia Electric & Power Company	Surry 2
50-269	Duke Power Company	Oconee 1
{ 50-270	Duke Power Company	Oconee 2
{ 50-287	Duke Power Company	Oconee 3
50-282	Northern States Power Company	Prairie Island 1
{ 50-306	Northern States Power Company	Prairie Island 2
50-285	Omaha Public Power District	Fort Calhoun 1
50-289	Metropolitan Edison Company	Three Mile Island 1
50-293	Boston Edison Company	Pilgrim 1

{-Multiple plants

*-No Notice of Availability required

Chase R. Stephens

- 2 -

DEC 31 1974

<u>Docket No.</u>	<u>Utility</u>	<u>Plant</u>
50-295	Commonwealth Edison Company	Zion 1
50-304	Commonwealth Edison Company	Zion 2
50-298	Nebraska Public Power District	Cooper
50-305	Wisconsin Public Service Corporation	Kewaunee
*50-309	Maine Yankee Atomic Power Company	Maine Yankee
50-312	Sacramento Municipal Utility District	Rancho Seco 1
>50-313	Arkansas Power & Light Company	Arkansas 1
50-315	Indiana & Michigan Electric Company et. al.	D.C. Cook
*50-317	Baltimore Gas & Electric Company	Calvert Cliffs 1
50-321	Georgia Power Company	Hatch 1
50-324	Carolina Power & Light Company	Brunswick 2
50-331	Iowa Electric Light & Power Company	Duane Arnold
50-333	Power Authority of the State of NY	J.A. Fitzpatrick

Twelve (12) conformed copies of each Order are enclosed for your use.

The Order transmitted herewith contains an appendix which includes a number of graphs. A complete copy including the graphs is transmitted for your records, however, in lieu of publication of the appendix to the Order, the enclosed Notice of Availability should be published at the end of the Order. Please instruct the Federal Register to handle it this way. The Orders should be published as soon as possible (not necessarily a Schedule I publication) and publication may be spread out over two or three days.

Sybil M. Kari
Licensing Analyst
Directorate of Licensing

Enclosures:
As Stated

OFFICE >	L:DDRP					
SURNAME >	SKari:bs					
DATE >	12/30/74					

NOV 27 1974

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Office of Secretary of the Commission

FEDERAL REGISTER NOTICE

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UNITED STATES ATOMIC ENERGY COMMISSION

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

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Twelve copies of the above notice also are enclosed for your use and distribution to the Public Document Room.

15/ Shirley M. Sheppard

Robert A. Purple, Chief
Operating Reactors Branch #1
Directorate of Licensing

Enclosures:
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M.D.

OFFICE ➤	L:OR-1	L:OR-1				
SURNAME ➤	<i>SMSheppard</i>	<i>RAPurple</i>				
DATE ➤	11/27/74	11/27/74				

OCT 24 1974

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1st Shirley M. Sheppard
for
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Operating Reactors Branch #1
Directorate of Licensing

Enclosures:
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OFFICE ➤	L:OR-1	L:OR-1				
SURNAME ➤	SMSheppard	RAPurple				
DATE ➤	10/24/74	10/ /74				

SEP 27 1974

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Robert A. Purple, Chief
Operating Reactors Branch #1
Directorate of Licensing

Enclosures:
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OFFICE ➤	L:OR-1	L:DR-1				
SURNAME ➤	SMSheppard:dc RAPurple					
DATE ➤	9/ /74	9/ /74				

SEP 24 1974

Chase R. Stephens, Docketing and Service Section
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for*

Robert A. Purple, Chief
Operating Reactors Branch #1
Directorate of Licensing

Enclosures:
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*memo
2*

OFFICE ➤	L:OR-1	L:OR-1				
SURNAME ➤	<i>one</i> SMSheppard:dc	<i>one</i> RAPurple				
DATE ➤	9/24/74	9/24/74				

SEP 27 1974

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Directorate of Licensing

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2/2/74
2

OFFICE ➤	L:OR-1	L:DR-1				
SURNAME ➤	<i>SMO</i> SMSheppard:dc	<i>RA Purple</i> RAPurple				
DATE ➤	9/27/74	9/27/74				