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H. Gearin

LWR 2 Branch Chiefs

B. Scharf (25)

Docket No. 50-321

OCT 15 1974

Georgia Power Company

ATTN: Mr. I. S. Mitchell, III

Vice President & Secretary

P. O. Box 4545

Atlanta, Georgia 30302

Gentlemen:

The Atomic Energy Commission has issued the enclosed Amendment No. 2 to Facility Operating License No. DPR-57 for the Edwin I. Hatch Nuclear Plant Unit 1. The amendment authorizes operation of the facility at reactor core power levels not in excess of 2436 megawatts thermal and provides a condition on blowdown discharge temperatures to the Altamaha River, in accordance with the Technical Specifications as revised by Changes Nos. 2 and 3 attached thereto. The enclosed Safety Evaluation identifies and evaluates the changes which are covered by this license amendment.

Also enclosed is a notice of issuance which will be forwarded to the Office of the Federal Register for publication.

Sincerely,

15/ Karl Knierl

for Voss A. Moore, Assistant Director
for Light Water Reactors, Group 2
Directorate of Licensing

Enclosures:

1. Amendment No. 2 to DPR-57
w/Change No. 2 to Appendix A
and Change No. 3 to Appendix B,
Technical Specifications
2. Safety Evaluation
3. Federal Register Notice

cc: See next page

OFFICE	L:GCR	L:LWR 2-1	OGC	L:LWR 2-1		
SURNAME	HGearin	JStolz	S H Lewis	VAMoore		
DATE	10/11/74	10/14/74	10/11/74	10/11/74		

BN

Georgia Power Co.

-2-

OCT 15 1974

cc: Mr. Ruble A. Thomas
Vice President
Southern Services, Inc.
300 Office Park
Birmingham, Alabama 35202

George F. Trowbridge, Esquire
Shaw, Pittman, Potts & Trowbridge
910 Seventeenth Street
Washington, D. C. 20006

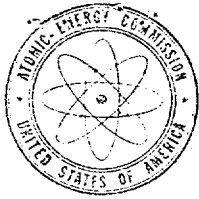
Mr. Harry Majors
Southern Services, Inc.
300 Office Park
Birmingham, Alabama 35202

Mr. John Robins
Office of Planning and Budget
Room 615-C
270 Washington Street, S. W.
Atlanta, Georgia 30334

Mr. G. Wyman Lamb, Chairman
Appling County Commissioners
County Courthouse
Baxley, Georgia 31513

bcc: J. R. Buchanan, ORNL
Thomas B. Abernathy, DTIE
A. Rosenthal, ASLAS
N. Goodrich, ASLBP
ACRS (16)

OFFICE▶						
SURNAME▶						
DATE▶						



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

GEORGIA POWER COMPANY

DOCKET NO. 50-321

EDWIN I. HATCH NUCLEAR PLANT UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2
License No. DPR-57

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for license filed by the Georgia Power Company (the licensee) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. Construction of the Edwin I. Hatch Nuclear Plant Unit 1 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-65 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the license, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - E. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;

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

2. Accordingly, License No. DPR-57 is hereby amended to read as follows:

Paragraph 2.C.(1)

"(1) Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 2436 megawatts thermal."

Paragraph 2.C.(2)

"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Changes Nos. 2 and 3."

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

FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachment:

Change No. 2 to Appendix A

Change No. 3 to Appendix B

Technical Specifications

Date of Issuance: OCT 13 1974

GEORGIA POWER COMPANY

DOCKET NO. 50-321

EDWIN I. HATCH NUCLEAR PLANT UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2
License No. DPR-57

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 - B. Construction of the Edwin I. Hatch Nuclear Plant Unit 1 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-65 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the license, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - E. 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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Paragraph 2.C.(2)

"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Changes Nos. 2 and 3."

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

FOR THE ATOMIC ENERGY COMMISSION

Original signed by:
Roger S. Boyd

Original signed by:
A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachment:

Change No. 2 to Appendix A
Change No. 3 to Appendix B
Technical Specifications

Date of Issuance: OCT 13 1974

OFFICE ▶	L: LWR 2-1	L: LWR 2-1	OGC	AD/ LWR 2	DDRP	
SURNAME ▶	SBurwell:aw	JFStolz	S.H. Lewis	VAMoore	AGiambusso	
DATE ▶	10/11/74	10/11/74	10/11/74	10/11/74	10/ /74	

Remove page titled TEMPORARY RESTRICTIONS

CHANGE NO. 2
October 13, 1974

A temporary temperature-monitoring station shall be installed on a piling in the Altamaha River, located within the estimated mixing zone. This station shall be maintained until the special mixing zone study described in subsection 4.2 has been completed.

The instruments shall read from zero°F to 120°F with an accuracy of $\pm 0.5^\circ\text{F}$ and a response time of 2 seconds for 63.2 percent full scale. An instrument check shall be performed weekly and instrument calibration quarterly. In the event of instrument failure, a portable temperature instrument shall be used to check the intake and discharge temperature a minimum of once each 8 hours. The automated temperature system shall be returned to service as soon as possible.

Bases

Compliance with the EPA recommendation of cold-side blowdown will limit the thermal stress to the aquatic environment when the facility is operating not to excess of 1% of rated power. ~~Exceeding this limit will result in a violation of the 5°F limit on blowdown temperature which will cause a violation of the 97°F limit on blowdown discharge.~~

The purpose of the 97°F limit on blowdown discharge is to provide a more convenient determination of conformance to the 5°F limit. It is believed that the 97°F limit placed on the blowdown will be correlated with the 5°F limit at the edge of the mixing zone. Studies carried out in conformance with Section 4.2 should confirm this or provide a basis for changing the temperature limit specification.

2.0 LIMITING CONDITIONS FOR OPERATION

2.1 Thermal

2.1.1 Maximum Discharge Temperature

Objective

The objective of this specification is to limit the thermal stress to the Altamaha River ecosystem.

Specification

Since the Hatch Plant uses the best practicable control technology (closed-cycle mechanical draft cooling towers) for heat dissipation as recommended by EPA, the thermal discharge shall consist of the cold-side tower blowdown.

~~A~~n*x*i*r*p*r*k*a*r*i*t*a*t*e*x*e*n*d*i*k*i*o*n*x*i*x*b*l*e*w*d*e*w*n*x*e*m*p*r*e*k*a*n*k*e*x*w*i*l*x*i*e*
~~i~~n*e*l*i*n*d*e*x*i*r*e*n*x*i*y*s*m*a*n*e*n*x*e*f*e*x*a*x*f*u*l*x*r*e*w*e*k*x*e*r*e*k*a*t*i*n*a*x*i*e*n*e*x

Blowdown discharge temperature shall not exceed 97°F maximum provided, however, that this limit is not more restrictive than the 5°F limit given below in connection with the mixing zone. Should it be more restrictive, the 5°F limit governs.

During and immediately following chlorination of the cooling tower system, it may be necessary to stop blowdown from the cooling towers. In this event, the service water makeup to the tower shall be bypassed directly to the river, and the maximum discharge temperature shall not exceed 20°F above ambient river temperature.

In the event these temperature limits are exceeded, corrective action including power reduction shall be taken within three hours to bring plant operation within compliance of specifications.

The temperature of the Altamaha River shall not be increased by more than 5°F above ambient as measured at the edge of the mixing zone to be approved by the State of Georgia.

Monitoring Requirement

Temperature shall be continuously monitored in the intake from and discharge to the river. The recorders for the instruments shall be located in a building near the discharge line. An alarm from the temperature monitor shall be placed in the control room.

SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING
SUPPORTING AMENDMENT NO. 2 TO LICENSE NO. DPR-57
CHANGE NO. 2 TO APPENDIX A OF TECHNICAL SPECIFICATIONS
AND
CHANGE NO. 3 TO APPENDIX B OF TECHNICAL SPECIFICATIONS
GEORGIA POWER COMPANY
EDWIN I. HATCH NUCLEAR PLANT UNIT 1
DOCKET NO. 50-321

1.0 INTRODUCTION

The Atomic Energy Commission issued Facility Operating License No. DPR-57 to the Georgia Power Company on August 6, 1974. That license authorized the operation of the Edwin I. Hatch Nuclear Plant Unit 1 at reactor core power levels not in excess of 24 megawatts thermal in accordance with the Technical Specifications appended thereto. The activities authorized by that license are limited to fuel loading, low power testing, and operation at 1% of the facility's power level of 2436 megawatts thermal until the remaining items listed in Technical Specifications, Appendix A, have been satisfactorily completed. The outstanding work items which are to be completed prior to the staff authorizing operations at higher power levels are listed under Temporary Restrictions in Appendix A.

The Atomic Energy Commission issued Amendment 1 to Facility Operating License No. DPR-57 on September 27, 1974, to change the Technical Specifications Appendix A. This change, Change No. 1, provided for a design modification to the reactor overpressure protection system and deleted as complete one of the outstanding work items listed under Temporary Restrictions

By a letter dated October 8, 1974, Georgia Power Company requested permission to operate to full rated power prior to completing the preoperational testing of two auxiliary components in the radwaste system. The plant will be operated in compliance with all of the Technical Specifications concerning control of radioactive discharges.

The purposes of this Safety Evaluation are:

- (a) to evaluate the immediate need for the two untested (and incomplete) radwaste components;
- (b) to document that the work items described in the Temporary Restrictions of Technical Specifications Appendix A have been completed;
- (c) to revise the Technical Specifications Appendix B to include a limitation on blowdown discharge temperatures into the Altamaha River.

2.0 DISCUSSION

2.1 Need for Untested (and Incomplete) Radwaste Components

The Georgia Power Company reported in their letter that preoperational testing of the systems listed in the Temporary Restrictions have been completed with two minor exceptions. The first exception consists of provisions for solidifying moist solid wastes using urea formaldehyde. This equipment is not necessary for the packaging of solid wastes into an acceptable container for offsite shipment. The solid radwaste system is operational and the preoperational test procedures for this system have been completed.

The second exception consists of a radwaste concentrator. This item is an auxiliary component in the liquid radwaste system. The concentrator is not required for normal operation of the liquid radwaste system. A demineralizer is located in parallel with the concentrator, and the demineralizer provides the decontamination factors necessary to process normal system wastes. The liquid radwaste system is operational and the preoperational test procedures for this system have been completed.

The licensee advises that the incomplete status of the above two components does not in any way prevent plant operation in conformance with the Technical Specifications. Our evaluation of the radwaste systems concurs with that conclusion. Therefore we consider the requirements for completion of the preoperational tests on the radwaste systems satisfied and approve issuance of a full power license.

2.2 Completion of Work Items Described in the Temporary Restrictions

Regulatory Operations has advised the staff in writing that all work items listed in the Temporary Restrictions of Technical Specifications Appendix A have been completed with the exception of the preopera-

tional tests on the two radwaste system components described above. In view of our conclusion that the requirements for completion of the preoperational tests are satisfied with these exceptions, we find the work items described in the Temporary Restrictions completed and delete this page from the Technical Specifications Appendix A.

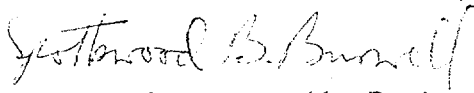
2.3 Inclusion of a Limitation on Blowdown Discharge Temperatures into the Altamaha River

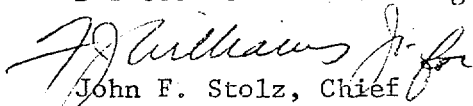
The Technical Specifications Appendix B attached to the license issued on August 6, 1974, included the statement, "An appropriate condition on blowdown temperature will be included upon issuance of a full power operating license". This amendment to the Technical Specifications, Appendix B includes the appropriate condition limiting the blowdown discharge temperatures into the Altamaha River. This limitation provides a more convenient determination of conformance with the requirements on raising temperatures in the river approved by the State of Georgia. The changes to the Technical Specification Appendix B are indicated by the revision marks on pages 2-1 and 2-2.

3.0 CONCLUSION

The changes to the Technical Specifications described above do not compromise the safe operation of the Edwin I. Hatch Nuclear Plant Unit 1.

We have concluded, based on the considerations discussed above, that: (1) because the change does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the change does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.


Spottswood B. Burwell, Project Manager
Light Water Reactor Branch 2-1
Directorate of Licensing


John F. Stolz, Chief
Light Water Reactors Branch 2-1
Directorate of Licensing

Dated: OCT 13 1974

CHECKLIST FOR ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

APPLICANT Georgia Power Company DOCKET NO. 50-321

FACILITY Edwin I. Hatch Nuclear Plant Unit 1

PROJECT MANAGER S. Burwell

LICENSING ASSISTANT H. Gearin

DATE

Notice of Proposed Issuance Published
In FEDERAL REGISTER
Action Date

Not Required

Issuance Package: OGC Concurrence

1. License Amendment

10-11-74

2. FEDERAL REGISTER Notice

10-11-74

3. Staff Evaluation

10-11-74

4. Letter to applicant

10-11-74

NEPA Determination:

Required/Not Required

Not Required

For Amendments Affecting Power Level:

RO Notification and/or Concurrence

RO to contact A. Giambusso

OAI Notification and/or Concurrence 1/

Not Required

Bus. Mgmt-OA Notification and/or
Concurrence

10-4-74

OIS Notification

10-9-74

1/ or name change, transfer of facility ownership