



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

SOUTHERN NUCLEAR OPERATING COMPANY

OGLETHORPE POWER CORPORATION
MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA
CITY OF DALTON, GEORGIA

GEORGIA POWER COMPANY

DOCKET NO. 50-321

(Edwin I. Hatch Nuclear Plant Unit 1)

FACILITY OPERATING LICENSE

License No. DPR-57

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for license filed by the Georgia Power Company¹ ~~(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 and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Edwin I. Hatch Nuclear Plant Unit 1 (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 application, as amended, 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 operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
Southern Nuclear Operating Company² (herein called Southern Nuclear)
 - E. ~~The licensee is technically and financially qualified to engage~~ ^{qualified} in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;

*, together, Southern Nuclear and
the Owners are*

1. }
2. } (See following page for Footnotes)

1. Following the initial filing of the application for license, Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia and The City of Dalton, Georgia became co-owners with Georgia Power Company (GPC) of the Edwin I. Hatch Nuclear Plant, Unit 1, and together with GPC are hereinafter referred to as the Owners.

2. Southern Nuclear Operating Company succeeds Georgia Power Company as the operator of the Edwin I. Hatch Nuclear Plant, Unit 1. Southern Nuclear is authorized by the Owners to exercise exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

Owners have

- F. The ~~licensee has~~ satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
- G. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
- H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering available alternatives, the issuance of Facility Operating License No. DPR-57 is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied; and
- I. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23 and 70.31.

2. Facility Operating License No. DPR-57 is hereby issued to ~~the~~ *Southern Nuclear, the* Georgia Power Company, the Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia and the City of Dalton, Georgia to read as follows:

A. This license applies to the Edwin I. Hatch Nuclear Plant Unit No. 1, a direct cycle boiling water reactor and associated equipment (the facility), owned by the Georgia Power Company, the Oglethorpe Power Corporation, ~~The Municipal Electric Authority of Georgia and the City of Dalton, Georgia.~~ *and operated by Southern Nuclear.* The facility is located eleven miles north of Baxley in Appling County, Georgia, and is described in the 'Final Safety Analysis Report' as supplemented and amended (Amendments 9 through 46) and the Environmental Report as supplemented and amended (Supplement 1 and Amendment 1).

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses: *manage, maintain*

- (1) *Southern Nuclear,* Pursuant to Section 104b of the Act and 10 CFR Part 50, 'Licensing of Production and Utilization Facilities,' ~~Georgia Power Company~~ to possess, use, and operate the facility at the designated location in Appling County, Georgia, in accordance with the procedures and limitations set forth in this license; and the Georgia Power Company, the Oglethorpe Power Corporation, The Municipal Electric Authority of Georgia and the City of Dalton, Georgia to possess, *but not operate* the facility in accordance with the procedures and limitations set forth in this license;

- 3 -
- (2) ~~Pursuant to the Act and 10 CFR Part 70, Georgia Power Company~~ ^{Southern Nuclear,} to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
- (3) ~~Pursuant to the Act and 10 CFR Parts 30, 40 and 70, Georgia Power Company~~ ^{Southern Nuclear,} to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) ~~Pursuant to the Act and 10 CFR Parts 30, 40 and 70, Georgia Power Company~~ ^{Southern Nuclear,} to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (5) ~~Pursuant to the Act and 10 CFR Parts 30 and 70, Georgia Power Company~~ ^{Southern Nuclear,} to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 20, Section 40.41 of Part 40, Sections 50-54 and 50-59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions³ specified or incorporated below:

- (1) Maximum Power Level
~~The Georgia Power Company~~ ^{Southern Nuclear} is authorized to operate the facility at steady state reactor core power levels not in excess of 2558 megawatts thermal.

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 758 are hereby incorporated in the license. ~~The licensee~~ shall operate the facility in accordance with the Technical Specifications.

Southern Nuclear

INSERT 1
following page

3. The original licensee authorized to possess, use and operate the facility was Georgia Power Company (GPC). Consequently, certain historical references to GPC remain in the license conditions.

Insert 1

(2) Technical Specifications

SOUTHERN
NUCLEAR

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. are hereby incorporated in the license. ~~The licensee~~ shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

The Surveillance Requirements (SRs) contained in the Appendix A Technical Specifications and listed below are not required to be performed immediately upon implementation of Amendment No. 195. The SRs listed below shall be successfully demonstrated prior to the time and condition specified below for each:

- a) SRs 3.3.1.1.15, 3.3.1.1.16 (for function 9), 3.3.2.2.2, 3.3.2.2.3, 3.3.3.2.2, 3.3.6.1.6 (for function 1.f), 3.3.8.1.4, 3.7.7.2 and 3.7.7.3 shall be successfully demonstrated prior to entering MODE 2 on the first plant startup following the sixteenth refueling outage;
- b) SRs 3.8.1.8, 3.8.1.10, 3.8.1.12, 3.8.1.13, and 3.8.1.18 shall be successfully demonstrated at their next regularly scheduled performance;
- c) SRs 3.6.4.1.3 and 3.6.4.1.4 will be met at implementation for the secondary containment configuration in effect at that time. The SRs shall be successfully demonstrated for the other secondary containment configurations prior to the plant entering the LCO applicability for the configuration.

Amendment No. 199

Amendment No. 195

- (3) ^{Southern Nuclear} ~~Georgia Power Company~~ shall implement and maintain in effect all provisions of the fire protection program, which is referenced in the Final Safety Analysis Report for the facility, as contained in the updated Edwin I. Hatch Nuclear Plant Units 1 and 2 Fire Hazards Analysis and Fire Protection Program, originally submitted by a letter dated July 22, 1986. ~~The licensee~~ may make changes to the fire protection program without prior approval of the Commission only if the changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

2.C.(4) Physical Protection

Southern Nuclear

~~Georgia Power Company~~ shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Edwin I. Hatch Physical Security Plan," with revisions submitted through December 14, 1988; "Edwin I. Hatch Guard Training and Qualification Plan" with revisions submitted through October 24, 1988; and "Edwin I. Hatch Safeguards Contingency Plan," with revisions submitted through July 31, 1988. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

APRIL 15, 1996

~~June 4, 1992~~

APRIL 12, 1993 ~~March 18, 1992~~

~~August 12, 1991~~

APRIL 15, 1996

identified as Appendix D to the Physical Security Plan,

Georgia Power Company

2.C.(5) ~~The licensee~~ shall submit, for the Commission's review and approval, plans for inspection and/or modification during the next refueling outage (following Cycle 7 operation and prior to startup for Cycle 8 operation) of the Recirculation and Reactor Heat Removal Systems piping. These plans shall be submitted to the Commission at least three months prior to the start of the next refueling outage.

D. Southern Nuclear shall not market or broker power or energy from Edwin I. Hatch Nuclear Plant, Unit 1.

E. ~~X~~ This license is effective as of the date of issuance and shall expire at midnight, August 6, 2014.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by
Roger S. Boyd

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

Attachment:
Appendix A - Technical Specifications and
Appendix B - Environmental Protection Plan

Amendment No. 161 3/25/89

Amendment No. 159 12/30/88 Amendment No. 93 2/11/83

Amended
No. 199

Unit 2 License - Marked pages



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON D C 20555

SOUTHERN NUCLEAR OPERATING COMPANY

GEORGIA POWER COMPANY ^{POWER}
~~Oglethorpe Electric Power Corporation~~
MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA
CITY OF DALTON, GEORGIA

DOCKET NO. 50-366

EDWIN I. HATCH NUCLEAR PLANT, UNIT NO. 2

FACILITY OPERATING LICENSE

Owners

License No. NRC-1

1. The Nuclear Regulatory Commission (the Commission) having found that:

- A. The application for license filed by Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, And the City of Dalton, Georgia (the licensees) 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 and all required notifications to other agencies or bodies have been duly made;
- B. Construction of the Edwin I. Hatch Nuclear Plant, Unit No. 2 (the facility) has been substantially completed in conformity with Construction Permit No. CPPP-90 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
- C. The facility requires exemptions from certain requirements of (1) Section 50.55a(g)(2) of 10 CFR Part 50, (2) Criterion 2 of Appendix A to 10 CFR Part 50, (3) Criterion 50 of Appendix A to 10 CFR Part 50, and (4) Appendices G and H to 10 CFR Part 50. These exemptions are described in the Office of Nuclear Reactor Regulation's safety evaluations supporting the granting of these exemptions which are enclosed in the letter dated June 13, 1978 transmitting this license. These exemptions are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest. The exemptions are, therefore, hereby granted. With the granting of these exemptions, the facility will operate in conformity with the application, as amended, 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 operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;

Amendment No. 14 4/17/80

[Southern Nuclear Operating Company] (herein called Southern Nuclear)

- E. ~~Georgia Power Company~~ is technically qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
- F. ~~Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia~~ are financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
- G. ~~The Owners~~ have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
- H. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
- I. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Facility Operating License No. NPF-5 subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
- J. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70, including 10 CFR Sections 30.33, 40.32, 70.23 and 70.31.

Southern Nuclear, →

2. Facility Operating License No. NPF-5 is hereby issued to Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia to read as follows:

- A. The license applies to the Edwin I. Hatch Nuclear Plant, Unit No. 2, a boiling water reactor and associated equipment (the facility) owned by Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia. The facility is located in Appling County, Georgia, and is described in the Final Safety Analysis Report as supplemented and amended (Amendments 18 through 45) and the Environmental Report as supplemented and amended (Supplements 1 and 2 and Amendment 1).

and operated by Southern Nuclear.

¹ Southern Nuclear Operating Company succeeds Georgia Power Company as operator of the Edwin I. Hatch Nuclear Plant, Unit 2. Southern Nuclear is authorized by the Owners to exercise exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses: ~~Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia;~~

manage, maintain (1) ~~Southern Nuclear,~~ Pursuant to Section 103 of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, ~~use,~~ and Georgia Power Company to operate the facility at the designated location in Appling County, Georgia, in accordance with the procedures and limitations set forth in this license;

3 (2) ~~Southern Nuclear,~~ Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

4 (3) ~~Southern Nuclear,~~ Pursuant to the Act of 10 CFR Parts 30, 40 and 70 to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;

5 (4) ~~Southern Nuclear,~~ Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and

6 (5) ~~Southern Nuclear,~~ Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions² specified or incorporated below:

(2) Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia, pursuant to the Act and 10 CFR Part 50, to possess but not operate the facility at the designated location in Appling County, Georgia, in accordance with the procedures and limitations set forth in this license;

² The original licensee authorized to possess, use, and operate the facility was Georgia Power Company (GPC). Consequently, certain historical references to GPC remain in the license conditions.

(1) Maximum Power Level

~~Southern Nuclear~~
~~Georgia Power Company~~ is authorized to operate the facility at steady state reactor core power levels not in excess of 2558 megawatts thermal in accordance with the conditions specified herein and in Attachment 2 to this license. Attachment 2 is an integral part of this license.

Amendment No. 138

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 46, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

~~Southern Nuclear~~

(3) Additional Conditions

The matters specified in the following conditions shall be completed to the satisfaction of the Commission within the stated time periods following the issuance of the license or within the operational restrictions indicated. The removal of these conditions shall be made by an amendment to the license supported by a favorable evaluation by the Commission.

~~(a) Fuel Performance~~

~~Georgia Power Company shall, prior to startup for that cycle of operation in which burnups greater than 20,000 megawatt days per ton of uranium are expected to be obtained, provide for Commission review and obtain Commission approval of TRIP III calculations and other affected analyses utilizing fission gas release calculational methodology approved for burnups greater than 20,000 megawatt days per ton of uranium.~~

INSERT /
following page

Amendment No. 21 10/81

Insert 1

(2) Technical Specifications

SOUTHERN
NUCLEAR

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. are hereby incorporated in the license. ~~The licensee~~ shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

The Surveillance Requirements (SRs) contained in the Appendix A Technical Specifications and listed below are not required to be performed immediately upon implementation of Amendment No. 135. The SRs listed below shall be successfully demonstrated prior to the time and condition specified below for each:

- a) SRs 3.3.1.1.15, 3.3.1.1.16 (for function 9), 3.3.2.2.2, 3.3.2.2.3, 3.3.3.2.2, 3.3.6.1.6 (for function 1.f), 3.3.8.1.4, 3.7.7.2 and 3.7.7.3 shall be successfully demonstrated prior to entering MODE 2 on the first plant startup following the sixteenth refueling outage;
- b) SRs 3.8.1.8, 3.8.1.10, 3.8.1.12, 3.8.1.13, and 3.8.1.18 shall be successfully demonstrated at their next regularly scheduled performance;
- c) SRs 3.6.4.1.3 and 3.6.4.1.4 will be met at implementation for the secondary containment configuration in effect at that time. The SRs shall be successfully demonstrated for the other secondary containment configurations prior to the plant entering the LCO applicability for the configuration.

AMENDMENT NO. 140

AMENDMENT NO. 135

- (b) ^{Southern Nuclear} ~~Georgia Power Company~~ shall implement and maintain in effect all provisions of the fire protection program, which is referenced in the Final Safety Analysis Report for the facility, as contained in the updated Edwin I. Hatch Nuclear Plant Units 1 and 2 Fire Hazards Analysis and Fire Protection Program, originally submitted by a letter dated July 22, 1986. ~~The licensee~~ may make changes to the fire protection program without prior approval of the Commission only if the changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.
- GPC

~~(e) Georgia Power Company shall conduct the post-fuel-loading initial test program that has been reviewed and approved by the Commission at the time of issuance of this license without making major changes to this program. Major changes are deemed to involve unreviewed safety questions under Section 50.59 of 10 CFR Part 50 and are defined as:~~

~~Georgia Power Company shall conduct the post-fuel-loading initial test program that has been reviewed and approved by the Commission at the time of issuance of this license without making major changes to this program. Major changes are deemed to involve unreviewed safety questions under Section 50.59 of 10 CFR Part 50 and are defined as:~~

(f) Initial Test Program

Georgia Power Company shall conduct the post-fuel-loading initial test program that has been reviewed and approved by the Commission at the time of issuance of this license without making major changes to this program. Major changes are deemed to involve unreviewed safety questions under Section 50.59 of 10 CFR Part 50 and are defined as:

- (1) Elimination of any test identified in Section 14 of the Final Safety Analysis Report as essential.
- (2) Modification of test objectives, methods or acceptance criteria for any test identified in Section 14 of the Final Safety Analysis Report as essential.
- (3) Performance of any test identified in Section 14 of the Final Safety Analysis Report as essential at a power level different by more than five (5) percent of rated power from that described.
- (4) Failure to complete all tests included in the described program (planned or scheduled for power levels up to the authorized power level) prior to exceeding a core burnup of one hundred and twenty (120) effective full power days.

2.D. Physical Protection

~~Southern Nuclear~~

~~Georgia Power Company~~ shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Edwin I. Hatch Physical Security Plan," with revisions submitted through December 14, 1988; "Edwin I. Hatch Guard Training and Qualification Plan" with revisions submitted through October 24, 1988; and "Edwin I. Hatch Safeguards Contingency Plan" with revisions submitted through July 21, 1988. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

APRIL 15, 1996

June 4, 1992

APRIL 12, 1993

March 18, 1992

August 12, 1991

APRIL 15, 1996

identified as Appendix D to the Physical Security Plan,

- E. This license is subject to the following additional condition for the protection of the environment:

Before engaging in additional construction or operational activities → activities which may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the Final Environmental Statement (NUREG-0417), the licensees shall provide written notification to the Director, Office of Nuclear Reactor Regulation.

Southern Nuclear

- F. This license is subject to the following antitrust conditions:

(1) As used herein:

- (a) "Entity" means any financially responsible person, private or public corporation, municipality, county, cooperative, association, joint stock association or business trust, owning, operating or proposing to own

or operate equipment or facilities within the State of Georgia (other than Chatham, Effingham, Fannin, Towns and Union Counties) for the generation, transmission or distribution of electricity, provided that, except for municipalities, counties, or rural electric cooperatives, "entity" is restricted to those which are or will be public utilities under the laws of the State of Georgia or under the laws of the United States, and are or will be providing retail electric service under a contract or rate schedule on file with and subject to the regulation of the Public Service Commission of the State of Georgia or any regulatory agency of the United States, and, provided further, that as to municipalities, counties or rural electric cooperatives, "entity" is restricted to those which provide electricity to the public at retail within the State of Georgia (other than Chatham, Effingham, Fannin, Towns and Union Counties) or to responsible and legally qualified organizations of such municipalities, counties and/or cooperatives in the State of Georgia (other than Chatham, Effingham, Fannin, Towns and Union Counties) to the extent they may bind their members.

- (b) "Power Company" means Georgia Power Company, any successor, assignee of this license, or assignee of all or substantially all of Georgia Power Company's assets, and any affiliate or subsidiary of Georgia Power Company to the extent it engages in the ownership of any bulk power supply generation or transmission resource in the State of Georgia (but specifically not including (1) flood rights and other land rights acquired in the State of Georgia incidental to hydroelectric generation facilities located in another state and (2) facilities located west of the thread of the stream on that part of the Chattahoochee River serving as the boundary between the States of Georgia and Alabama).
- (2) Power Company recognizes that it is often in the public interest for those engaging in bulk power supply and purchases to interconnect, coordinate for reliability and economy, and engage in bulk power supply transactions in order to increase interconnected system reliability and reduce the costs of electric power. Such arrangements must provide

for Power Company's costs (including a reasonable return) in connection therewith and allow other participating entities full access to the benefits available from interconnected bulk power supply operations and must provide net benefits to Power Company. In entering into such arrangements neither Power Company nor any other participant should be required to violate the principles of sound engineering practice or forego a reasonably contemporaneous alternative arrangement with another, developed in good faith in arms length negotiations (but not including arrangements between Power Company and its affiliates or subsidiaries which impair entities' rights hereunder more than they would be impaired were such arrangements made in good faith between Power Company and a non-affiliate or non-subsidiary) which affords it greater benefits. Any such arrangement must provide for adequate notice and joint planning procedures consistent with sound engineering practice, and must relieve Power Company from obligations undertaken by it in the event such procedures are not followed by any participating entity.

Power Company recognizes that each entity may acquire some or all of its bulk power supply from sources other than Power Company.

In the implementation of the obligations stated in the succeeding paragraphs, Power Company and entities shall act in accordance with the foregoing principles, and these principles are conditions to each of Power Company's obligations herein undertaken.

- (3) Power Company shall interconnect with any entity which provides, or which has undertaken firm contractual obligations to provide, some or all of its bulk power supply from sources other than Power Company on terms to be included in an interconnection agreement which shall provide for appropriate allocation of the costs of interconnection facilities; provided however, that if an entity undertakes to negotiate such a firm contractual obligation, the Power Company shall, in good faith, negotiate with such entity concerning any proposed interconnection. Such interconnection agreement shall provide, without undue preference or discrimination, for the following among other things, insofar as consistent with the operating necessities of Power Company's and any participating entity's systems:

- (a) maintenance and coordination of reserves, including, where appropriate, the purchase and sale thereof,
- (b) emergency support,
- (c) maintenance support,
- (d) economy energy exchanges,
- (e) purchase and sale of firm and non-firm capacity and energy,
- (f) economic dispatch of power resources within the State of Georgia,

provided, however, that in no event shall such arrangements impose a higher percentage of reserve requirements on the participating entity than that maintained by Power Company for similar resources.

- (4) Power Company shall sell full requirements power to any entity. Power Company shall sell partial requirements power to any entity. Such sales shall be made pursuant to rates on file with the Federal Power Commission, or any successor regulatory agency, and subject to reasonable terms and conditions.
- (5) (a) Power Company shall transmit ("transmission service") bulk power over its system to any entity or entities with which it is interconnected, pursuant to rate schedules on file with the Federal Power Commission which will fully compensate Power Company for the use of its system, to the extent that such arrangements can be accommodated from a functional engineering standpoint and to the extent that Power Company has surplus line capacity or reasonably available funds to finance new construction for this purpose. To the extent the entity or entities are able, they shall reciprocally provide transmission service to Power Company. Transmission service will be provided under this subparagraph for the delivery of power to an entity for its or its members' consumption and retail distribution or for casual resale to another entity for (1) its consumption or (2) its retail distribution. Nothing contained herein shall require the Power Company to transmit bulk power so as

to have the effect of making the Tennessee Valley Authority ("TVA") or its distributors, directly or indirectly, a source of power supply outside the area determined by the TVA Board of Directors by resolution of May 16, 1966 to be the area for which the TVA or its distributors were the primary source of power supply on July 1, 1957, the date specified in the Revenue Bond Act of 1959, 16 USC 231 n-4.

- b) Power Company shall transmit over its system from any entity or entities with which it is interconnected, pursuant to rate schedules on file with the Federal Power Commission which will fully compensate Power Company for the use of its system, bulk power which results from any such entity having excess capacity available from self-owned generating resources in the State of Georgia, to the extent such excess necessarily results from economic unit sizing or from failure to forecast load accurately or from such generating resources becoming operational earlier than the planned in-service date, to the extent that such arrangements can be accommodated from a functional engineering standpoint, and to the extent Power Company has surplus line capacity available.
- (6) Upon request, Power Company shall provide service to any entity purchasing partial requirements service, full requirements service or transmission service from Power Company at a delivery voltage appropriate for loads served by such entity, commensurate with Power Company's available transmission facilities. Sales of such service shall be made pursuant to rates on file with the Federal Power Commission or any successor regulatory agency, and subject to reasonable terms and conditions.
- (7) Upon reasonable notice, Power Company shall grant any entity the opportunity to purchase an appropriate share in the ownership of, or, at the option of the entity, to purchase an appropriate share of unit power from each of the following nuclear generating units at Power Company's costs, to the extent the same are constructed and operated: Hatch 2, Vogtle 1, Vogtle 2, Vogtle 3, Vogtle 4, and any other nuclear generating unit constructed by Power Company in the State of Georgia which, in the application filed with the USAEC or its successor agency, is scheduled for commercial operation prior to January 1, 1989.

An entity's request for a share must have regard for the economic size of such nuclear unit(s), for the entity's load size, growth and characteristics, and for demands upon Power Company's system from other entities and Power Company's retail customers, all in accordance with sound engineering practice. Executory agreements to accomplish the foregoing shall contain provisions reasonably specified by Power Company requiring the entity to consummate and pay for such purchase by an early date or dates certain. For purposes of this provision, "unit power" shall mean capacity and associated energy from a specified generating unit.

(8) To effect the foregoing conditions, the following steps shall be taken:

(9)

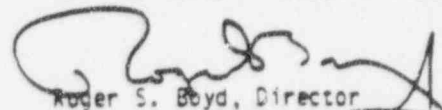
- (a) Power Company shall file with the appropriate regulatory authorities and thereafter maintain in force as needed an appropriate transmission tariff available to any entity;
- (b) Power Company shall file with the appropriate regulatory authorities and thereafter maintain in force as needed an appropriate partial requirements tariff available to any entity; Power Company shall have its liability limited to the partial requirements service actually contracted for and the entity shall be made responsible for the security of the bulk power supply resources acquired by the entity from sources other than the Power Company;
- (c) Power Company shall amend the general terms and conditions of its current Federal Power Commission tariff and thereafter maintain in force as needed provisions to enable any entity to receive bulk power at transmission voltage at appropriate rates;
- (d) Power Company shall not have the unilateral right to defeat the intended access by each entity to alternative sources of bulk power supply provided by the conditions to this license; but Power Company shall retain the right to seek regulatory approval of changes in its tariffs to the end that it be adequately compensated for services it provides, specifically including, but not limited to, the provisions of Section 205 of the Federal Power Act;

(8) Southern Nuclear shall not market or broker power or energy from Edwin I. Hatch Nuclear Plant, Unit 2. Georgia Power Company shall continue to be responsible for compliance with the obligations imposed on it in its antitrust license conditions. Georgia Power Company is responsible and accountable for the actions of Southern Nuclear, to the extent that Southern Nuclear's actions may, in any way, contravene the existing antitrust license conditions.

- (e) Power Company shall use its best efforts to amend any outstanding contract to which it is a party that contains provisions which are inconsistent with the conditions of this license;
- (f) Power Company affirms that no consents are or will become necessary from Power Company's parent, affiliates or subsidiaries to enable Power Company to carry out its obligations hereunder or to enable the entities to enjoy their rights hereunder;
- (g) All provisions of these conditions shall be subject to and implemented in accordance with the laws of the United States and of the State of Georgia, as applicable, and with rules, regulations and orders of agencies of both, as applicable.

G. This license is effective as of the date of issuance and shall expire at midnight, June 13, 2018.

FOR THE NUCLEAR REGULATORY COMMISSION


Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Attachments:

- 1. Appendix A - Technical Specifications and
Appendix B - Environmental Protection Plan
- 2. Items to be Completed Prior to
Opening Main Steam Isolation
Valves

Date of Issuance: JUN 13 1978

Amendment No. 97 12/30/88



ATTACHMENT 2

ITEMS TO BE COMPLETED PRIOR TO OPENING MAIN STEAM
ISOLATION VALVES DURING REACTOR OPERATION

Georgia Power Company shall prior to opening the main steam isolation valves during reactor operation, complete to the satisfaction of the Commission, the testing and significant incomplete work list items which affect the operability of the following systems:

- | | | |
|-----|------------|-------------------------------------|
| 1. | 2C91-3510 | PROCESS COMPUTER SYSTEM |
| 2. | 2D11-3510 | OFF GAS RADIATION MONITORING SYSTEM |
| 3. | 2D12-3510 | TIP SYSTEM |
| 4. | 2G11-3510C | RADWASTE - SOLID |
| 5. | 2G11-3510D | RADWASTE - CHEMICAL |
| 6. | 2G11-3510E | RADWASTE - CONVEYOR |
| 7. | 2N21-3510 | CONDENSATE SYSTEM |
| 8. | 2N21-3520 | REACTOR FEEDWATER SYSTEM |
| 9. | 2N30-3510 | TURBINE & AUXILIARIES |
| 10. | 2N36-3510 | EXTRACTION STEAM & FEEDWATER HEATER |
| 11. | 2N61-3510 | CONDENSER & AUXILIARIES |
| 12. | 2N62-3510 | OFF GAS SYSTEM |
| 13. | 2N71-3510 | CONDENSER CIRCULATING WATER SYSTEM |
| 14. | 2P33-3510 | SAMPLING SYSTEM |
| 15. | 2P70-3510 | DRYWELL PNEUMATICS SYSTEM |
| 16. | 2W24-3510 | COOLING TOWER SYSTEM |

Georgia Power Company shall not open the main steam isolation valves during reactor operation without prior written authorization from the Commission.

Note: All items acceptably completed per letter of authorization, July 20, 1978.

See Author ion Tab for full power.

Technical Specifications Changes
(Appendix A to the Operating Licenses)

Disregard the technical specification changed pages submitted in the September 18, 1992 submittal. Since the approval of the Improved Technical Specifications, only the changes specified on the following pages are necessary as a result of this request.

INSTRUCTIONS FOR UPDATING DOCUMENT

(Marked-up version)

Unit 1

<u>Page</u>	<u>Instruction</u>
5.0-17	Replace

Unit 2

<u>Page</u>	<u>Instruction</u>
5.0-17	Replace

5.0 ADMINISTRATIVE CONTROLS

5.6 Reporting Requirements

The following reports shall be submitted in accordance with 10 CFR 50.4.

5.6.1 Occupational Radiation Exposure Report

-----NOTE-----
A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units at the station.

A tabulation on an annual basis of the number of station, ~~utility~~, and other personnel (including contractors) for whom monitoring was required, receiving exposures > 100 mrem/yr and their associated man rem exposure according to work and job functions (e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (describe maintenance), waste processing, and refueling). This tabulation supplements the requirements of 10 CFR 20.2206. The dose assignments to various duty functions may be estimated based on pocket dosimeter, thermoluminescent dosimeter (TLD), or film badge measurements. Small exposures totalling < 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources should be assigned to specific major work functions. The report shall be submitted by March 31 of each year.

5.6.2 Annual Radiological Environmental Operating Report

-----NOTE-----
A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units at the station.

The Annual Radiological Environmental Operating Report covering the operation of the unit during the previous calendar year shall be submitted by May 15 of each year. The report shall include summaries, interpretations, and analyses of trends of the results of the Radiological Environmental Monitoring Program for the reporting period. The material provided shall be consistent with the objectives outlined in the Offsite Dose Calculation Manual (ODCM), and in 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, and IV.C.

(continued)

5.0 ADMINISTRATIVE CONTROLS

5.6 Reporting Requirements

The following reports shall be submitted in accordance with 10 CFR 50.4.

5.6.1 Occupational Radiation Exposure Report

-----NOTE-----
A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units at the station.

A tabulation on an annual basis of the number of station, ~~utility,~~ and other personnel (including contractors) for whom monitoring was required, receiving exposures > 100 mrem/yr and their associated man rem exposure according to work and job functions (e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (describe maintenance), waste processing, and refueling). This tabulation supplements the requirements of 10 CFR 20.2206. The dose assignments to various duty functions may be estimated based on pocket dosimeter, thermoluminescent dosimeter (TLD), or film badge measurements. Small exposures totalling < 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources should be assigned to specific major work functions. The report shall be submitted by March 31 of each year.

5.6.2 Annual Radiological Environmental Operating Report

-----NOTE-----
A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units at the station.

The Annual Radiological Environmental Operating Report covering the operation of the unit during the previous calendar year shall be submitted by May 15 of each year. The report shall include summaries, interpretations, and analyses of trends of the results of the Radiological Environmental Monitoring Program for the reporting period. The material provided shall be consistent with the objectives outlined in the Offsite Dose Calculation Manual (ODCM), and in 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, and IV.C.

(continued)

Environmental Protection Plan Changes
(Appendix B to the Operating Licenses)

Disregard the Environmental Technical Specification changed pages submitted in the September 18, 1992 submittal. Since the conversion to the Environmental Protection Plan, only the changes specified on the following pages are necessary as a result of this request.

INSTRUCTIONS FOR UPDATING DOCUMENT
(Marked-up version)

<u>Page</u>	<u>Instruction</u>
Cover	Replace
Page 1-1	Replace
Page 4-1	Replace

APPENDIX B
TO
FACILITY OPERATING LICENSE NOS.
DPR-57 and NPF-5

HATCH NUCLEAR PLANT
UNITS 1 and 2

SOUTHERN NUCLEAR OPERATING COMPANY
~~GEORGIA POWER COMPANY~~
DOCKET NOS. 50-321 and 50-366

**ENVIRONMENTAL PROTECTION PLAN
(NONRADIOLOGICAL)**

1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) is to provide for protection of nonradiological environmental values during operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the facility is operated in an environmentally acceptable manner, as established by the Final Environmental Statements (FES) and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility construction and operation and of actions taken to control those effects.

Environmental concerns identified in the FES which relate to water quality matters are regulated by way of the licensee's NPDES permit.

1. The term "licensee," when used in the Edwin I. Hatch Environmental Protection Plan, shall refer to Southern Nuclear Operating Company.

4.0 Environmental Conditions

4.1 Unusual or Important Environmental Events

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to plant operation shall be recorded and reported to the NRC within 24 hours followed by a written report per Subsection 5.4.2. The following are examples: excessive bird impaction events; onsite plant or animal disease outbreaks; mortality or unusual occurrences of any species protected by the Endangered Species Act of 1973; fish kills or impingement events on the intake screens; increase in nuisance organisms or conditions; unanticipated or emergency discharge of waste water or chemical substances; and damage to vegetation resulting from cooling tower operations.

No routine monitoring programs are required to implement this condition.

4.2 Environmental Monitoring

4.2.1 Aquatic Monitoring

The certifications and permits required under the Clean Water Act provide mechanisms for protecting water quality and, indirectly, aquatic biota. The NRC will rely on the decision made by the State of Georgia under the authority of the Clean Water Act for any requirements for aquatic monitoring.

4.2.2 Terrestrial Monitoring

Terrestrial monitoring is not required.

4.2.3 Maintenance of Transmission Line Corridors

The use of herbicides within the Edwin I. Hatch Nuclear Plant transmission line corridors shall conform to the approved use of selected herbicides as registered by the Environmental Protection Agency and approved by the State of Georgia authorities and applied as directed on the herbicide label.

Records shall be maintained in accordance with EPA or State of Georgia requirements by the licensee's Transmission Operating and Maintenance Department concerning herbicide use. Such records shall be made readily available to the NRC upon request. There shall be no routine reporting requirement associated with this condition.

Georgia Power Company's

Operating License Changes

INSTRUCTIONS FOR UPDATING DOCUMENT

Unit 1 Operating License (DPR-57)
(Excluding Appendices A and B)
Replace all Unit 1 typed pages

Unit 2 Operating License (NPF-5)
(Excluding Appendices A and B)
Replace all Unit 2 typed pages

- * The updated operating licensee is a consolidated version of all license amendments that have been approved prior to, and including, the approval of this license amendment.

Unit 1 License - Typed pages

SOUTHERN NUCLEAR OPERATING COMPANY

GEORGIA POWER COMPANY
OGLETHORPE POWER CORPORATION
MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA
CITY OF DALTON, GEORGIA

DOCKET NO. 50-321

(Edwin I. Hatch Nuclear Plant Unit 1)

FACILITY OPERATING LICENSE

License No. DPR-57

1. The Atomic Energy Commission (the Commission) having that:

- A. The application for license filed by the Georgia Power Company¹ 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 and all required notifications to other agencies or bodies have been duly made;
- B. Construction of the Edwin I. Hatch Nuclear Plant Unit 1 (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 application, as amended, 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 operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;

¹ Following the initial filing of the application for license, Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia and The City of Dalton, Georgia became co-owners with Georgia Power Company (GPC) of the Edwin I. Hatch Nuclear Plant, Unit 1, and together with GPC are hereinafter referred to as the Owners.

- E. Southern Nuclear Operating Company² (herein called Southern Nuclear) is technically qualified and, together, Southern Nuclear and the Owners are financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
 - F. The Owners have satisfied the applicable provisions to 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
 - G. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering available alternatives, the issuance of Facility Operating License No. DPR-57 is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied; and
 - I. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23 and 70.31.
2. Facility Operating License No. DPR-57 is hereby issued to Southern Nuclear, the Georgia Power Company, the Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia and the City of Dalton, Georgia to read as follows:
- A. This license applies to the Edwin I. Hatch Nuclear Plant Unit No. 1, a direct cycle boiling water reactor and associated equipment (the facility), owned by the Georgia Power Company, the Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia and the City of Dalton, Georgia and operated by Southern Nuclear. The facility is located eleven miles north of Baxley in Appling County, Georgia, and is described in the Final Safety Analysis Report as supplemented and amended (Amendments 9 through 46) and the Environmental Report as supplemented and amended (Supplement 1 and Amendment 1).
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - (1) Southern Nuclear, pursuant to Section 104b of the Act and 10 CFR Part 50, Licensing of Production and Utilization Facilities, to possess, manage, use, maintain and operate the facility at the designated location in Appling County, Georgia, in accordance with the procedures and limitations set forth in this license; and the Georgia Power Company, the Oglethorpe Power Corporation, the Municipal Electric Authority of Georgia and the City of Dalton, Georgia to possess but not operate the facility in accordance with the procedures and limitations set forth in this license;

² Southern Nuclear Operating Company succeeds Georgia Power Company as the operator of the Edwin I. Hatch Nuclear Plant, Unit 1. Southern Nuclear is authorized by the Owners to exercise exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

- (2) Southern Nuclear, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
- (3) Southern Nuclear, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) Southern Nuclear, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (5) Southern Nuclear, pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50-54 and 50-59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions³ specified or incorporated below:

(1) Maximum Power Level

Southern Nuclear is authorized to operate the facility at steady state reactor core power levels not in excess of 2558 megawatts thermal.

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

The Surveillance Requirements (SRs) contained in the Appendix A Technical Specifications and listed below are not required to be performed immediately upon implementation of Amendment No. 195. The SRs listed below shall be successfully demonstrated prior to the time and condition specified below for each:

- a) SRs 3.3.1.1.15, 3.3.1.1.16 (for function 9), 3.3.2.2.2, 3.3.2.2.3, 3.3.3.2.2, 3.3.6.1.6 (for function 1.f), 3.3.8.1.4, 3.7.7.2 and 3.7.7.3 shall be successfully demonstrated prior to entering MODE 2 on the first plant startup following the sixteenth refueling outage;

³ The original licensee authorized to possess, use and operate the facility was Georgia Power Company (GPC). Consequently, certain historical references to GPC remain in the license conditions.

- b) SRs 3.8.1.8, 3.8.1.10, 3.8.1.12, 3.8.1.13, and 3.8.1.18 shall be successfully demonstrated at their next regularly scheduled performance;
 - c) SRs 3.6.4.1.3 and 3.6.4.1.4 will be met at implementation for the secondary containment configuration in effect at that time. The SRs shall be successfully demonstrated for the other secondary containment configurations prior to the plant entering the LCO applicability for the configuration.
- (3) Southern Nuclear shall implement and maintain in effect all provisions of the fire protection program, which is referenced in the Final Safety Analysis Report for the facility, as contained in the updated Edwin I. Hatch Nuclear Plant Units 1 and 2 Fire Hazards Analysis and Fire Protection Program, originally submitted by a letter dated July 22, 1986. Southern Nuclear may make changes to the fire protection program without prior approval of the Commission only if the changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.
- (4) Physical Protection
- Southern Nuclear shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Edwin I. Hatch Physical Security Plan," with revisions submitted through April 15, 1996; "Edwin I. Hatch Guard Training and Qualification Plan" with revisions submitted through April 12, 1993; and "Edwin I. Hatch Safeguards Contingency Plan," identified as Appendix D to the Physical Security Plan, with revisions submitted through April 15, 1996. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.
- (5) Georgia Power Company shall submit, for the Commission's review and approval, plans for inspection and/or modification during the next refueling outage (following Cycle 7 operation and prior to startup for Cycle 8 operation) of the Recirculation and Reactor Heat Removal Systems piping. These plans shall be submitted to the Commission at least three months prior to the start of the next refueling outage.

D. Southern Nuclear shall not market or broker power or energy from Edwin I. Hatch Nuclear Plant, Unit 1.

- E. This license is effective as of the date of issuance and shall expire at midnight, August 6, 2014.

FOR THE ATOMIC ENERGY COMMISSION

Original signed by
Roger S. Boyd FOR

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

Attachment:

Appendix A - Technical Specifications and
Appendix B - Environmental Protection Plan

Unit 2 License - Typed pages

SOUTHERN NUCLEAR OPERATING COMPANY
GEORGIA POWER COMPANY
OGLETHORPE POWER CORPORATION
MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA AND
CITY OF DALTON, GEORGIA

DOCKET NO. 50-366

EDWIN I. HATCH NUCLEAR PLANT, UNIT 2

FACILITY OPERATING LICENSE

License No. NPF-5

1. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for license filed by Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, And the City of Dalton, Georgia (the Owners) 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 and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Edwin I. Hatch Nuclear Plant, Unit No. 2 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-90 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility requires exemptions from certain requirements of (1) Section 50.55a(g)(2) of 10 CFR Part 50, (2) Criterion 2 of Appendix A to 10 CFR Part 50, (3) Criterion 50 of Appendix A to 10 CFR Part 50, and (4) Appendices G and H to 10 CFR Part 50. These exemptions are described in the Office of Nuclear Reactor Regulation's safety evaluations supporting the granting of these exemptions which are enclosed in the letter dated June 13, 1978 transmitting this license. These exemptions are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest. The exemptions are, therefore, hereby granted. With the granting of these exemptions, the facility will operate in conformity with the application, as amended, 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 operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;

- E. Southern Nuclear Operating Company¹ (herein called Southern Nuclear) is technically qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
 - F. Southern Nuclear and the Owners, together, are financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
 - G. The Owners have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
 - H. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - I. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Facility Operating License No. NPF-5 subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
 - J. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70, including 10 CFR Sections 30.33, 40.32, 70.23 and 70.31.
2. Facility Operating License No. NPF-5 is hereby issued to Southern Nuclear, Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia to read as follows:
- A. The license applies to the Edwin I. Hatch Nuclear Plant, Unit No. 2, a boiling water reactor and associated equipment (the facility) owned by Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia and operated by Southern Nuclear. The facility is located in Appling County, Georgia, and is described in the Final Safety Analysis Report as supplemented and amended (Amendments 18 through 45) and Environmental Report as supplemented and amended (Supplements 1 and 2 and Amendment 1).
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - (1) Southern Nuclear, pursuant to Section 103 of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, manage, use, maintain and operate the facility at the designated location in Appling County, Georgia in accordance with the procedures and limitations set forth in this license;

¹ Southern Nuclear Operating Company succeeds Georgia Power Company as operator of the Edwin I. Hatch Nuclear Plant, Unit 2. Southern Nuclear is authorized by the Owners to exercise exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

- (2) Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia, pursuant to the Act and 10 CFR Part 50, to possess but not operate, the facility at the designated location in Appling County, Georgia, in accordance with the procedures and limitations set forth in this license;
- (3) Southern Nuclear, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;
- (4) Southern Nuclear, pursuant to the Act of 10 CFR Parts 30, 40 and 70 to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required.
- (5) Southern Nuclear, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and
- (6) Southern Nuclear, pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions² specified or incorporated below:

(1) Maximum Power Level

Southern Nuclear is authorized to operate the facility at steady state reactor core power levels not in excess of 2558 megawatts thermal.

² The original licensee authorized to possess, use, and operate the facility was Georgia Power Company (GPC). Consequently, certain historical references to GPC remain in the license conditions.

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. , are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

The Surveillance Requirements (SRs) contained in the Appendix A Technical Specifications and listed below are not required to be performed immediately upon implementation of Amendment No. 135. The SRs listed below shall be successfully demonstrated prior to the time and condition specified below for each:

- a) SRs 3.3.2.2.2, 3.3.2.2.3, 3.3.3.2.2, 3.3.8.1.4, 3.6.2.4.2, 3.7.7.2 and 3.7.7.3 shall be successfully demonstrated prior to entering MODE 2 on the first plant startup following the twelfth refueling outage;
- b) SRs 3.8.1.8, 3.8.1.9 (for DG 2C), 3.8.1.10, 3.8.1.12, 3.8.1.13, 3.8.1.17 (for DG 2C) and 3.8.1.18 shall be successfully demonstrated at their next regularly scheduled performance;
- c) SRs 3.6.4.1.3 and 3.6.4.1.4 will be met at implementation for the secondary containment configuration in effect at that time. The SRs shall be successfully demonstrated for the other secondary containment configurations prior to the plant entering the LCO applicability for that configuration.

(3) Additional Conditions

The matters specified in the following conditions shall be completed to the satisfaction of the Commission within the stated time periods following the issuance of the license or within the operational restrictions indicated. The removal of these conditions shall be made by an amendment to the license supported by a favorable evaluation by the Commission.

- (b) Southern Nuclear shall implement and maintain in effect all provisions of the fire protection program, which is referenced in the Final Safety Analysis Report for the facility, as contained in the updated Edwin I. Hatch Nuclear Plant Units 1 and 2 Fire Hazards Analysis and Fire Protection Program, originally submitted by a GPC letter dated July 22, 1986. Southern Nuclear may make changes to the fire protection program without prior approval of the Commission only if the changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

(f) Initial Test Program

Georgia Power Company shall conduct the post-fuel-loading initial test program that has been reviewed and approved by the Commission at the time of issuance of this license without making major changes to this program. Major changes are deemed to involve unreviewed safety questions under Section 50.59 of 10 CFR Part 50 and are defined as:

- (1) Elimination of any test identified in Section 14 of the Final Safety Analysis Report as essential.
- (2) Modification of test objectives, methods or acceptance criteria for any test identified in Section 14 of the Final Safety Analysis Report as essential.
- (3) Performance of any test identified in Section 14 of the Final Safety Analysis Report as essential at a power level different by more than five (5) percent of rated power from that described.
- (4) Failure to complete all tests included in the described program (planned or scheduled for power levels up to the authorized power level) prior to exceeding a core burnup of one hundred and twenty (120) effective full power days.

D. Physical Protection

Southern Nuclear shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Edwin I. Hatch Physical Security Plan," with revisions submitted through April 15, 1996; "Edwin I. Hatch Guard Training and Qualification Plan" with revisions submitted through April 12, 1993; and "Edwin I. Hatch Safeguards Contingency Plan," identified as Appendix D to the Physical Security Plan, with revisions submitted through April 15, 1996. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

- E. This license is subject to the following additional condition for the protection of the environment:

Before engaging in additional construction or operational activities which may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the Final Environmental Statement (NUREG-0417), Southern Nuclear shall provide written notification to the Director, Office of Nuclear Reactor Regulation.

F. This license is subject to the following antitrust conditions:

(1) As used herein:

- (a) "Entity" means any financially responsible person, private or public corporation, municipality, county, cooperative, association, joint stock association or business trust, owning, operating or proposing to own or operate equipment or facilities within the State of Georgia (other than Chatham, Effingham, Fannin, Towns and Union Counties) for the generation, transmission or distribution of electricity, provided that, except for municipalities, counties, or rural electric cooperatives, "entity" is restricted to those which are or will be public utilities under the laws of the State of Georgia or under the laws of the United States, and are or will be providing retail electric service under a contract or rate schedule on file with and subject to the regulation of the Public Service Commission of the State of Georgia or any regulatory agency of the United States, and, provided further, that as to municipalities, counties or rural electric cooperatives, "entity" is restricted to those which provide electricity to the public at retail within the State of Georgia (other than Chatham, Effingham, Fannin, Towns and Union Counties) or to responsible and legally qualified organizations of such municipalities, counties and/or cooperatives in the State of Georgia (other than Chatham, Effingham, Fannin, Towns and Union Counties) to the extent they may bind their members.
- (b) "Power Company" means Georgia Power Company, any successor, assignee of this license, or assignee of all or substantially all of Georgia Power Company's assets, and any affiliate or subsidiary of Georgia Power Company to the extent it engages in the ownership of any bulk power supply generation or transmission resource in the State of Georgia (but specifically not including (1) flood rights and other land rights acquired in the State of Georgia incidental to hydroelectric generation facilities located in another state and (2) facilities located west of the thread of the stream on that part of the Chattahoochee River serving as the boundary between the States of Georgia and Alabama).

- (2) Power Company recognizes that it is often in the public interest for those engaging in bulk power supply and purchases to interconnect, coordinate for reliability and economy, and engage in bulk power supply transactions in order to increase interconnected system reliability and reduce the costs of electric power. Such arrangements must provide for Power Company's costs (including a reasonable return) in connection therewith and allow other participating entities full access to the benefits available from interconnected bulk power supply operations and must provide net benefits to Power Company. In entering into such arrangements neither Power Company nor any other participant should be required to violate the principles of sound engineering practice or

forego a reasonably contemporaneous alternative arrangement with another, developed in good faith in arms length negotiations (but not including arrangements between Power Company and its affiliates or subsidiaries which impair entities' rights hereunder more than they would be impaired were such arrangements made in good faith between Power Company and a non-affiliate or non-subsiary) which affords it greater benefits. Any such arrangement must provide for adequate notice and joint planning procedures consistent with sound engineering practice, and must relieve Power Company from obligations undertaken by it in the event such procedures are not followed by any participating entity.

Power Company recognizes that each entity may acquire some or all of its bulk power supply from sources other than Power Company.

In the implementation of the obligations stated in the succeeding paragraphs, Power Company and entities shall act in accordance with the foregoing principles, and these principles are conditions to each of Power Company's obligations herein undertaken.

- (3) Power Company shall interconnect with any entity which provides, or which has undertaken firm contractual obligations to provide, some or all of its bulk power supply from sources other than Power Company on terms to be included in an interconnection agreement which shall provide for appropriate allocation of the costs of interconnection facilities; provided however, that if an entity undertakes to negotiate such a firm contractual obligation, the Power Company shall, in good faith, negotiate with such entity concerning any proposed interconnection.

Such interconnection agreement shall provide, without undue preference or discrimination, for the following among other things, insofar as consistent with the operating necessities of Power Company's and any participating entity's systems:

- (a) maintenance and coordination of reserves, including, where appropriate, the purchase and sale thereof,
- (b) emergency support,
- (c) maintenance support,
- (d) economy energy exchanges,
- (e) purchase and sale of firm and non-firm capacity and energy,
- (f) economic dispatch of power resources within the State of Georgia,

provided, however, that in no event shall such arrangements impose a higher percentage of reserve requirements on the participating entity than that maintained by Power Company for similar resources.

- (4) Power Company shall sell full requirements power to any entity. Power Company shall sell partial requirements power to any entity. Such sales shall be made pursuant to rates on file with the Federal Power Commission, or any successor regulatory agency, and subject to reasonable terms and conditions.
- (5)
 - (a) Power Company shall transmit ("transmission service") bulk power over its system to any entity or entities with which it is interconnected, pursuant to rate schedules on file with the Federal Power Commission which will fully compensate Power Company for the use of its system, to the extent that such arrangements can be accommodated from a functional engineering standpoint and to the extent that Power Company has surplus line capacity or reasonably available funds to finance new construction for this purpose. To the extent the entity or entities are able, they shall reciprocally provide transmission service to Power Company. Transmission service will be provided under this subparagraph for the delivery of power to an entity for its or its members' consumption and retail distribution or for casual resale to another entity for (1) its consumption or (2) its retail distribution. Nothing contained herein shall require the Power Company to transmit bulk power so as to have the effect of making the Tennessee Valley Authority ("TVA") or its distributors, directly or indirectly, a source of power supply outside the area determined by the TVA Board of Directors by resolution of May 16, 1966 to be the area for which the TVA or its distributors were the primary source of power supply on July 1, 1957, the date specified in the Revenue Bond Act of 1959, 16 USC 831 n-4.
 - (b) Power Company shall transmit over its system from any entity or entities with which it is interconnected, pursuant to rate schedules on file with the Federal Power Commission which will fully compensate Power Company for the use of its system, bulk power which results from any such entity having excess capacity available from self-owned generating resources in the State of Georgia, to the extent such excess necessarily results from economic unit sizing or from failure to forecast load accurately or from such generating resources becoming operational earlier than the planned in-service date, to the extent that such arrangements can be accommodated from a functional engineering standpoint, and to the extent Power Company has surplus line capacity available.
- (6) Upon request, Power Company shall provide service to any entity purchasing partial requirements service, full requirements service or transmission service from Power Company at a delivery voltage appropriate for loads served by such entity, commensurate with Power Company's available transmission facilities. Sales of such service shall be made pursuant to rates on file with the Federal Power Commission or any successor regulatory agency, and subject to reasonable terms and conditions.

- (7) Upon reasonable notice, Power Company shall grant any entity the opportunity to purchase an appropriate share in the ownership of, or, at the option of the entity, to purchase an appropriate share of unit power from each of the following nuclear generating units at Power Company's costs, to the extent the same are constructed and operated: Hatch 2, Vogtle 1, Vogtle 2, Vogtle 3, Vogtle 4, and any other nuclear generating unit constructed by Power Company in the State of Georgia which, in the application filed with the USAEC or its successor agency, is scheduled for commercial operation prior to January 1, 1989.

An entity's request for a share must have regard for the economic size of such nuclear unit(s), for the entity's load size, growth and characteristics, and for demands upon Power Company's system from other entities and Power Company's retail customers, all in accordance with sound engineering practice. Executory agreements to accomplish the foregoing shall contain provisions reasonably specified by Power Company requiring the entity to consummate and pay for such purchase by an early date or dates certain. For purposes of this provision, "unit power" shall mean capacity and associated energy from a specified generating unit.

- (8) Southern Nuclear shall not market or broker power or energy from Edwin I. Hatch Nuclear Plant, Unit 2. Georgia Power Company shall continue to be responsible for compliance with the obligations imposed on it by the antitrust conditions contained in this license. Georgia Power Company is responsible and accountable for the actions of Southern Nuclear, to the extent that Southern Nuclear's actions may, in any way, contravene the antitrust conditions of this license.

- (9) To effect the foregoing conditions, the following steps shall be taken:

- (a) Power Company shall file with the appropriate regulatory authorities and thereafter maintain in force as needed an appropriate transmission tariff available to any entity;
- (b) Power Company shall file with the appropriate regulatory authorities and thereafter maintain in force as needed an appropriate partial requirements tariff available to any entity; Power Company shall have its liability limited to the partial requirements service actually contracted for and the entity shall be made responsible for the security of the bulk power supply resources acquired by the entity from sources other than the Power Company;
- (c) Power Company shall amend the general terms and conditions of its current Federal Power Commission tariff and thereafter maintain in force as needed provisions to enable any entity to receive bulk power at transmission voltage at appropriate rates;
- (d) Power Company shall not have the unilateral right to defeat the intended access by each entity to alternative sources of bulk power supply provided by the conditions to this license; but Power Company shall retain the right to seek regulatory approval of changes in its tariffs to the end that it be adequately compensated for services it provides, specifically including, but not limited to, the provisions of Section 205 of the Federal Power Act;

- (e) Power Company shall use its best efforts to amend any outstanding contract to which it is a party that contains provisions which are inconsistent with the conditions of this license;
- (f) Power Company affirms that no consents are or will become necessary from Power Company's parent, affiliates or subsidiaries to enable Power Company to carry out its obligations hereunder or to enable the entities to enjoy their rights hereunder;
- (g) All provisions of these conditions shall be subject to and implemented in accordance with the laws of the United States and of the State of Georgia, as applicable, and with rules, regulations and orders of agencies of both, as applicable.

G. This license is effective as of the date of issuance and shall expire at midnight, June 13, 2018.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by
Roger S. Boyd

Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Attachments:

- 1. Appendix A - Technical Specifications and
Appendix B - Environmental Protection Plan
- 2. Items to be Completed Prior to
Opening Main Steam Isolation
Valves

Date of Issuance: JUN 13 1978

ATTACHMENT 2

ITEMS TO BE COMPLETED PRIOR TO OPENING MAIN STEAM
ISOLATION VALVES DURING REACTOR OPERATION

Georgia Power Company shall prior to opening the main steam isolation valves during reactor operation, complete to the satisfaction of the Commission, the testing and significant incomplete work list items which affect the operability of the following systems:

- | | | |
|-----|------------|-------------------------------------|
| 1. | 2C91-3510 | PROCESS COMPUTER SYSTEM |
| 2. | 2D11-3510 | OFF GAS RADIATION MONITORING SYSTEM |
| 3. | 2D12-3510 | TIP SYSTEM |
| 4. | 2G11-3510C | RADWASTE - SOLID |
| 5. | 2G11-3510D | RADWASTE - CHEMICAL |
| 6. | 2G11-3510E | RADWASTE - CONVEYOR |
| 7. | 2N21-3510 | CONDENSATE SYSTEM |
| 8. | 2N21-3520 | REACTOR FEEDWATER SYSTEM |
| 9. | 2N30-3510 | TURBINE & AUXILIARIES |
| 10. | 2N36-3510 | EXTRACTION STEAM & FEEDWATER HEATER |
| 11. | 2N61-3510 | CONDENSER & AUXILIARIES |
| 12. | 2N62-3510 | OFF GAS SYSTEM |
| 13. | 2N71-3510 | CONDENSER CIRCULATING WATER SYSTEM |
| 14. | 2P33-3510 | SAMPLING SYSTEM |
| 15. | 2P70-3510 | DRYWELL PNEUMATICS SYSTEM |
| 16. | 2W24-3510 | COOLING TOWER SYSTEM |

Georgia Power Company shall not open the main steam isolation valves during reactor operation without prior written authorization from the Commission.

Technical Specifications Changes
(Appendix A to the Operating Licenses)

Disregard the technical specification changed pages submitted in the September 18, 1992 submittal. Since the approval of the Improved Technical Specifications, only the changes specified on the following pages are necessary as a result of this request.

INSTRUCTIONS FOR UPDATING DOCUMENT

(Typed version)

Unit 1

<u>Page</u>	<u>Instruction</u>
5.0-17	Replace

Unit 2

<u>Page</u>	<u>Instruction</u>
5.0-17	Replace

5.0 ADMINISTRATIVE CONTROLS

5.6 Reporting Requirements

The following reports shall be submitted in accordance with 10 CFR 50.4.

5.6.1 Occupational Radiation Exposure Report

-----NOTE-----
A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units at the station.

A tabulation on an annual basis of the number of station and other personnel (including contractors) for whom monitoring was required, receiving exposures > 100 mrem/yr and their associated man rem exposure according to work and job functions (e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (describe maintenance), waste processing, and refueling). This tabulation supplements the requirements of 10 CFR 20.2206. The dose assignments to various duty functions may be estimated based on pocket dosimeter, thermoluminescent dosimeter (TLD), or film badge measurements. Small exposures totalling < 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources should be assigned to specific major work functions. The report shall be submitted by March 31 of each year.

5.6.2 Annual Radiological Environmental Operating Report

-----NOTE-----
A single submittal may be made for a multiple unit station. The submittal should combine sections common to all units at the station.

The Annual Radiological Environmental Operating Report covering the operation of the unit during the previous calendar year shall be submitted by May 15 of each year. The report shall include summaries, interpretations, and analyses of trends of the results of the Radiological Environmental Monitoring Program for the reporting period. The material provided shall be consistent with the objectives outlined in the Offsite Dose Calculation Manual (ODCM), and in 10 CFR 50, Appendix I, Sections IV.B.2, IV.B.3, and IV.C.

(continued)

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(continued)

Environmental Protection Plan Changes
(Appendix B to the Operating Licenses)

Disregard the Environmental Technical Specification changed pages submitted in the September 18, 1992 submittal. Since the conversion to the Environmental Protection Plan, only the changes specified on the following pages are necessary as a result of this request.

INSTRUCTIONS FOR UPDATING DOCUMENT
(Typed version)

<u>Page</u>	<u>Instruction</u>
Cover	Replace
Page 1-1	Replace
Page 4-1	Replace

APPENDIX B
TO
FACILITY OPERATING LICENSE NOS.
DPR-57 and NPF-5

HATCH NUCLEAR PLANT
UNITS 1 and 2

SOUTHERN NUCLEAR OPERATING COMPANY
DOCKET NOS. 50-321 and 50-366

**ENVIRONMENTAL PROTECTION PLAN
(NONRADIOLOGICAL)**

1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) is to provide for protection of nonradiological environmental values during operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the facility is operated in an environmentally acceptable manner, as established by the Final Environmental Statements (FES) and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility construction and operation and of actions taken to control those effects.

Environmental concerns identified in the FES which relate to water quality matters are regulated by way of the licensee's^(a) NPDES permit.

(a) The term "licensee," when used in the Edwin I. Hatch Environmental Protection Plan, shall refer to Southern Nuclear Operating Company.

4.0 Environmental Conditions

4.1 Unusual or Important Environmental Events

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to plant operation shall be recorded and reported to the NRC within 24 hours followed by a written report per Subsection 5.4.2. The following are examples: excessive bird impaction events; onsite plant or animal disease outbreaks; mortality or unusual occurrences of any species protected by the Endangered Species Act of 1973; fish kills or impingement events on the intake screens; increase in nuisance organisms or conditions; unanticipated or emergency discharge of waste water or chemical substances; and damage to vegetation resulting from cooling tower operations.

No routine monitoring programs are required to implement this condition.

4.2 Environmental Monitoring

4.2.1 Aquatic Monitoring

The certifications and permits required under the Clean Water Act provide mechanisms for protecting water quality and, indirectly, aquatic biota. The NRC will rely on the decision made by the State of Georgia under the authority of the Clean Water Act for any requirements for aquatic monitoring.

4.2.2 Terrestrial Monitoring

Terrestrial monitoring is not required.

4.2.3 Maintenance of Transmission Line Corridors

The use of herbicides within the Edwin I. Hatch Nuclear Plant transmission line corridors shall conform to the approved use of selected herbicides as registered by the Environmental Protection Agency and approved by the State of Georgia authorities and applied as directed on the herbicide label.

Records shall be maintained in accordance with EPA or State of Georgia requirements by the Georgia Power Company's Transmission Operating and Maintenance Department concerning herbicide use. Such records shall be made readily available to the NRC upon request. There shall be no routine reporting requirement associated with this condition.