

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SOUTHERN NUCLEAR OPERATING COMPANY, INC.

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

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 214 License No. DPR-57

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Edwin I. Hatch Nuclear Plant, Unit 1 (the facility) Facility Operating License No. DPR-57 filed by Southern Nuclear Operating Company, Inc. (Southern Nuclear), acting for itself, Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and City of Dalton, Georgia (the licensees), dated August 8, 1997, as supplemented by letters dated March 9, May 6, July 6, July 31, September 4, and September 11, 1998, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as set forth in 10 CFR Chapter !:
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I:
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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- Accordingly, the license is hereby amended by page changes to Facility Operating License No. DPR-57 and page changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-57 is hereby amended to read as follows:
 - (2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 214 are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance and shall be implemented prior to startup from the next refueling outage.

FOR THE NUCLEAR REGULATORY COMMISSION

Office of Nuclear Reactor Regulation

Attachment: Technical Specification and Operating License Changes

Date of Issuance: October 22, 1998

ATTACHMENT TO LICENSE AMENDMENT NO. 214

FACILITY OPERATING LICENSE NO. DPR-57

DOCKET NO. 50-321

Replace the following pages of the Facility Operating License and the Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the areas of change.

3

Facility Operating License

Remove Insert

3

Technical Specifications

| Remove | Insert |
|---------|---------|
| 1.1-5 | 1.1-5 |
| 3.3-2 | 3.3-2 |
| 3.3-5 | 3.3-5 |
| 3.3-7 | 3.3-7 |
| 3.3-8a | 3.3-8a |
| 3.3-27 | 3.3-27 |
| 3.3-28 | 3.3-28 |
| 3.3-29 | 3.3-29 |
| 3.4-25 | 3.4-25 |
| 3.4-26 | 3.4-26 |
| 3.4-27 | 3.4-27 |
| 5.0-16a | 5.0-16a |

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 Daltin, Georgia to possess but not operate the facility in accordance with the procedures and limitations set forth in this license:

- (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 conditions' 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 2763 megawatts thermal.

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.

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1.1 Definitions (continued)

| PHYSICS TESTS | PHYSICS TESTS shall be those tests performed to measure the fundamental nuclear characteristics of the reactor core and related instrumentation. These tests are: |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Described in Section 13.6, Startup and Power Test Program, of the FSAR; |
| | Authorized under the provisions of 10 CFR 50.59; or |
| | c. Otherwise approved by the Nuclear Regulatory Commission. |
| RATED THERMAL POWER (RTP) | RTP shall be a total reactor core heat transfer rate to the reactor coolant of 2763 MWt. |
| REACTOR PROTECTION SYSTEM (RPS) RESPONSE TIME | The RPS RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its RPS trip setpoint at the channel sensor until de-energization of the scram pilot valve solenoids. The response time may be measured by means of any series of sequential, overlapping, or total steps so that the entire response time is measured. |
| SHUTDOWN MARGIN (SDM) | SDM shall be the amount of reactivity by which the reactor is subcritical or would be subcritical assuming that: |
| | a. The reactor is xenon free; |
| | b. The moderator temperature is 68°F; and |
| | c. All control rods are fully inserted except for the single control rod of highest reactivity worth, which is assumed to be fully withdrawn. With control rods not capable of being fully inserted, the reactivity worth of these control rods must be accounted for in the determination of SDM. |
| STAGGERED TEST BASIS | A STAGGERED TEST BASIS shall consist of the testing of one of the systems, subsystems, channels, or other designated components during the interval specified by the Surveillance |

(continued)

HATCH UNIT 1

RPS Instrumentation 3.3.1.1

ACTIONS (continued)

| | CONDITION | | REQUIRED ACTION | COMPLETION TIME |
|----|------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| c. | One or more Functions with RPS trip capability not maintained. | C.1 | Restore RPS trip capability. | 1 hour |
| D. | Required Action and associated Completion Time of Condition A, B, or C not met. | D.1 | Enter the Condition referenced in Table 3.3.1.1-1 for the channel. | Immediately |
| E. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | E.1 | Reduce THERMAL POWER to < 28% RTP. | 4 hours |
| F. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | F.1 | Be in MODE 2. | 6 hours |
| G. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | G.1 | Be in MODE 3. | 12 hours |
| н. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | Н.1 | Initiate action to fully insert all insertable control rods in core cells containing one or more fuel assemblies. | Immediately |

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HATCH UNIT 1

RPS Instrumentation 3.3.1.1

SURVEILLANCE REQUIREMENTS (continued)

| | A DESCRIPTION AND ADDRESS OF A DESCRIPTION AND ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS | SURVEILLANCE | FREQUENCY |
|----|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| SR | 3.3.1.1.7 | Only required to be met during entry into MODE 2 from MODE 1. | |
| | | Verify the IRM and APRM channels overlap. | 7 days |
| SR | 3.3.1.1.8 | Calibrate the local power range monitors. | 1000 effective full power hours |
| SR | 3.3.1.1.9 | Perform CHANNEL FUNCTIONAL TEST. | 92 days |
| SR | 3.3.1.1.10 | For Function 2.a, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. | |
| | | Perform CHANNEL FUNCTIONAL TEST. | 184 days |
| SR | 3.3.1.1.11 | Verify Turbine Stop Valve — Closure and Turbine Control Valve Fast Closure, Trip Oil Pressure — Low Functions are not bypassed when THERMAL POWER is ≥ 28% RTP. | 184 days |
| SR | 3.3.1.1.12 | Perform CHANNEL FUNCTIONAL TEST. | 18 months |
| | New York, and the second s | | (continued |

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Table 3.3.1.1-1 (page 1 of 3) Reactor Protection System Instrumentation

| | FUNCTION | APPLICABLE NOCES OR OTHER SPECIFIED CONDITIONS | REQUIRED CHANKELS PER TRIP SYSTEM | CONDITIONS REFERENCED FROM REQUIRED ACTION D.1 | | JRVEILLANCE GUIREMENTS | ALLOWABLE VALUE |
|------|-----------------------------------|------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| . In | termediate Range Monitor | | | | | | |
| •. | Neutron Flux — High | 2 | 3 | 6 | SR SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.4 3.3.1.1.6 3.3.1.1.7 3.3.1.1.7 3.3.1.1.13 3.3.1.1.15 | ≾ 120/125 divisions of full scale |
| | | 5(a) | 3 | H | SR SR SR SR | 3.3.1.1.1 3.3.1.1.5 3.3.1.1.13 3.3.1.1.15 | s 120/125 divisions of full scale |
| b. | Inop | 2 | 3 | G | SR SR | 3.3.1.1.4 3.3.1.1.15 | MA |
| | | 5(a) | 3 | н | SR | 3.3.1.1.5 3.3.1.1.15 | NA |
| | erage Power Range hitor | | | | | | |
| 8. | Neutran Flux — Kigh (Setdown) | 2 | 3(c) | G | SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.7 3.3.1.1.8 3.3.1.1.10 3.3.1.1.10 3.3.1.1.13 | 5 20% RTP |
| b. | Simulated Thermal Power - High | 1 | 3(c) | F | SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.2 3.3.1.1.8 3.3.1.1.10 3.3.1.1.10 3.3.1.1.13 | ≤ 0.58 ₩ + 58% RTP and ≤ 115.5% &TP ^(b) |
| c. | Neutron Flux — High | 1 | 3(c) | , | SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.2 3.3.1.1.8 3.3.1.1.10 3.3.1.1.10 3.3.1.1.13 | ≤ 120% RTP |
| d. | Inop | 1,2 | 3(c) | G | SR | 3.3.1.1.10 | NA |
| | | | | | | | (continued) |

(a) With any control rod withdrawn from a core cell containing one or more fuel assemblies.

(b) 0.58 W + 58% - 0.58 AW RTP when reset for single loop operation per LCO 3.4.1, "Recirculation Loops Operating."

(c) Each APRM channel provides inputs to both trip systems.

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| | FUNCTION | APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS | REQUIRED CHANNELS PER TRIP SYSTEM | CONDITIONS REFERENCED FROM REQUIRED ACTION D.1 | | URVEILLANCE EQUIREMENTS | ALLOWABLE VALUE |
|-----|-------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|----------------------------|----------------------------------------------------------------|--------------------|
| 8. | Turbine Stop Valve - Cloaure | 2 28% RTP | 4 | £ | SR SR SR | 3.3.1.1.9 3.3.1.1.11 3.3.1.1.13 3.3.1.1.15 | s 10% closed |
| 9. | Turbine Control Valve Fast Closure, Trip Oil Pressure - Low | 2 28% RTP | 2 | E | SR SR SR SR SR | 3.3.1.1.9 3.3.111 3.3.1.1.13 3.3.1.1.15 3.3.1.1.15 | ≵ 600 psig |
| 10. | Reactor Mode Switch - Shutdown Position | 1,2 | 1 | G | SR SR | 3.3.1.1.12 3.3.1.1.15 | MA |
| | | 5(a) | 1 | H | SR SR | 3.3.1.1.12 3.3.1.1.15 | NA |
| 11. | Manual Screm | 1,2 | 1 | G | SR SR | 3.3.1.1.5 3.3.1.1.15 | NA |
| | | 5(8) | 1 | H | SR SR | 3.3.1.1.5 3.3.1.1.15 | NA |

Table 3.3.1.1-1 (page 3 of 3) Reactor Protection System Instrumentation

(a) With any control rod withdrawn from a core cell containing one or more fuel assemblies.

EOC-RPT Instrumentation 3.3.4.1

3.3 INSTRUMENTATION

3.3.4.1 End of Cycle Recirculation Pump Trip (EOC-RPT) Instrumentation

- LCO 3.3.4.1 a. Two channels per trip system for each EOC-RPT instrumentation Function listed below shall be OPERABLE:
 - 1. Turbine Stop Valve (TSV) -- Closure; and
 - Turbine Control Valve (TCV) Fast Closure, Trip Oil Pressure — Low.
 - OR
 - b. LCO 3.2.2, "MINIMUM CRITICAL POWER RATIO (MCPR)," limits for inoperable EOC-RPT as specified in the COLR are made applicable.

APPLICABILITY: THERMAL POWER ≥ 28% RTP.

ACTIONS

Separate Condition entry is allowed for each channel.

| CONDITION | REQUIRED ACTION | | COMPLETION TIM | |
|----------------------------------------|-----------------|---------------------------------------------------------------------------------------|----------------|--|
| A. One or more channels inoperable. | A.1 | Restore channel to OPERABLE status. | 72 hours | |
| | OR | | | |
| | A.2 | Not applicable if inoperable channel is the result of an inoperable breaker. | | |
| | | Place channel in trip. | 72 hours | |

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HATCH UNIT 1

ACTIONS (continued)

| | CONDITION | | REQUIRED ACTION | COMPLETION TIME |
|----|-----------------------------------------------------------------------------|------------------|----------------------------------------------------------------|-----------------|
| Β. | One or more Functions with EOC-RPT trip capability not maintained. | 8.1 <u>OR</u> | Restore EOC-RPT trip capability. | 2 hours |
| | AND MCPR limit for | B.2 | Apply the MCPR limit for inoperable EOC-RPT as specified | 2 hours |
| | inoperable EOC-RPT not made applicable. | | in the COLR. | |
| c. | Required Action and associated Completion Time not met. | C.1 | Remove the associated recirculation pump from service. | 4 hours |
| | | OR | | |
| | | C.2 | Reduce THERMAL POWER to < 28% RTP. | 4 hours |

SURVEILLANCE REQUIREMENTS

When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided the associated Function maintains EOC-RPT trip capability.

| The Landson Statement and the Statement of Statement | FREQUENCY | |
|------------------------------------------------------|----------------------------------|---------|
| R 3.3.4.1.1 | Perform CHANNEL FUNCTIONAL TEST. | 92 days |

(continued)

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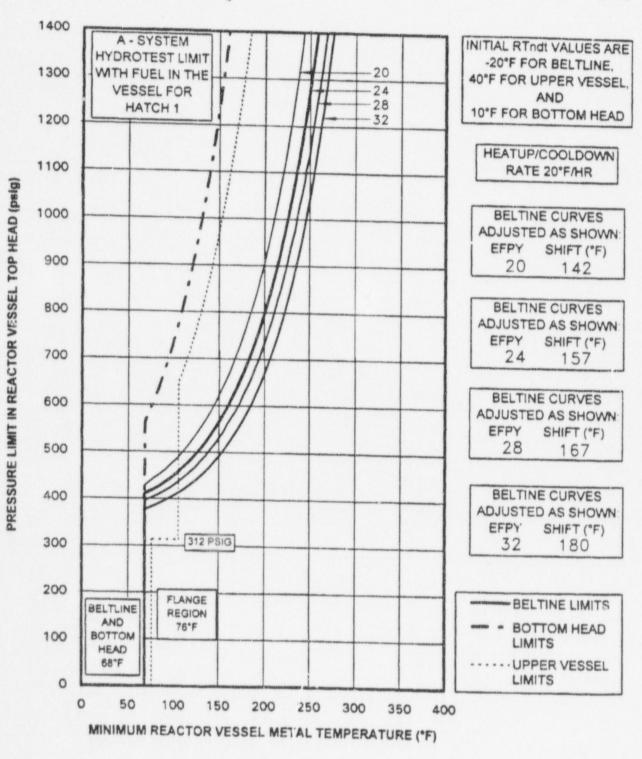
Amenament No. 214 7

EOC-RPT Instrumentation 3.3.4.1

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SURVEILLANCE REQUIREMENTS (continued)

| | | SURVEILLANCE | FREQUENCY |
|----|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| SR | 3.3.4.1.2 | Verify TSV — Closure and TCV Fast Closure, Trip Oil Pressure — Low Functions are not bypassed when THERMAL POWER is $\geq 28\%$ RTP. | 184 days |
| SR | 3.3.4.1.3 | Perform CHANNEL CALIBRATION. The Allowable Values shall be: | 18 months |
| | | TSV — Closure: \leq 10% closed; and | |
| | | TCV Fast Closure, Trip Oil Pressure — Low: ≥ 600 psig. | |
| SR | 3.3.4.1.4 | Perform LOGIC SYSTEM FUNCTIONAL TEST including breaker actuation. | 18 months |
| SR | 3.3.4.1.5 | Breaker interruption time may be assumed from the most recent performance of SR 3.3.4.1.6. | |
| | | Verify the EOC-RPT SYSTEM RESPONSE TIME is within limits. | 18 months on a STAGGERED TEST BASIS |
| SR | 3.3.4.1.6 | Determine RPT breaker interruption time. | 60 months |



[ACAD] F34911

Figure 3.4.9-1 (Page 1 of 1) Pressure/Temperature Limits for Inservice Hydrostatic and Inservice Leakage Tests

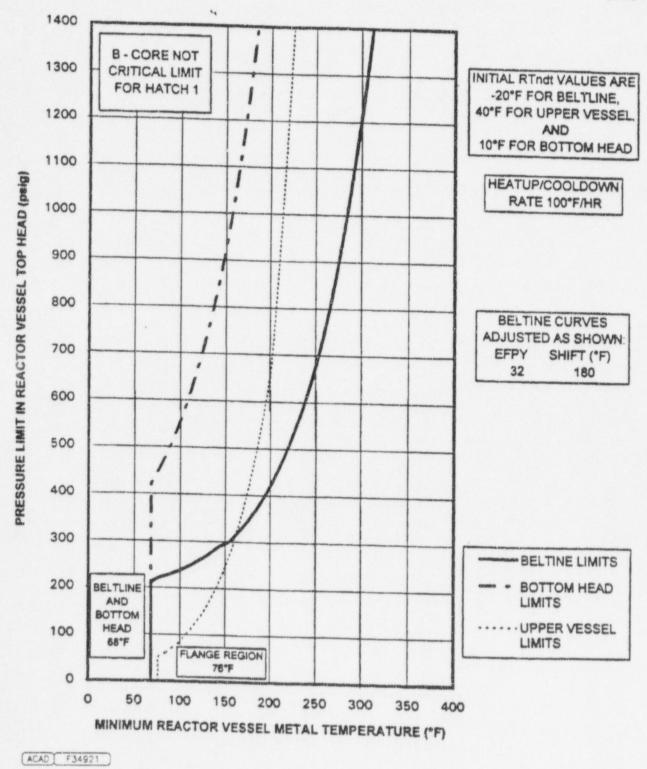
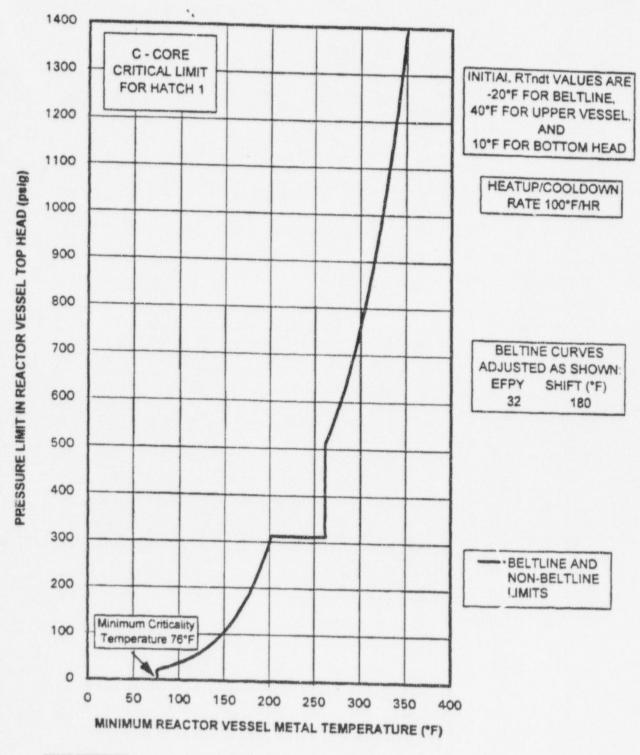


Figure 3.4.9-2 (Page 1 of 1) Pressure/Temperature Limits for Non-Nuclear Heatup, Low Power Physics Tests, and Cooldown Following a Shutdown

Hatch Unit 1



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Figure 3.4.9-3 (Page 1 of 1) Pressure/Temperature Limits for Criticality

Hatch Unit 1

5.5 Programs and Manuals

- 5.5.11 Technical Specifications (TS) Bases Control Program (continued)
 - d. Proposed changes that meet the criteria of b. above shall be reviewed and approved by the NRC prior to implementation. Changes to the Bases implemented without prior NRC approval shall be provided to the NRC on a frequency consistent with 10 CFR 50.71(e).

5.5.12 Primary Containment Leakage Rate Testing Program

A program shall be established to implement the leakage rate testing of the primary containment as required by 10 CFR 50.54(o) and 10 CFR 50, Appendix J, Option B, as modified by approved exemptions. This program shall be in accordance with the guidelines contained in Regulatory Guide 1.163, "Performance-Based Containment Leak-Test Program," dated September 1995.

The peak calculated primary containment internal pressure for the design basis loss of coolant accident, P_a, is 50.5 psig.

The maximum allowable primary containment leakage rate, L_a , at P_a is 1.2% of primary containment air weight per day.

Leakage rate acceptance criteria are:

- a. Primary containment overall leakage rate acceptance criterion is ≤ 1.0 L. During the first unit startup following testing in accordance with this program, the leakage rate acceptance criteria are ≤ 0.60 L. for the combined Type B and Type C tests, and ≤ 0.75 L. for Type A tests;
- b. Air lock testing acceptance criteria are:
 - 1) Overall air lock leakage rate is $\leq 0.05 L_{*}$ when tested at $\geq P_{*}$,
 - 2) For each door, leakage rate is ≤ 0.01 L, when the gap between the door seals is pressurized to ≥ 10 psig for at least 15 minutes.

The provisions of SR 3.0.2 do not apply to the test frequencies specified in the Primary Containment Leakage Rate Testing Program.

(continued)

HATCH UNIT 1



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001

SOUTHERN NUCLEAR OPERATING COMPANY, INC.

GEORGIA POWER COMPANY

OGLETHORPE POWER CORPORATION

MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA

CITY OF DALTON, GEORGIA

DOCKET NO. 50-366

EDWIN I. HATCH NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 155 License No. NPF-5

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Edwin I. Hatch Nuclear Plant, Unit 2 (the facility) Facility Operating License No. NPF-5 filed by Southern Nuclear Operating Company, Inc. (Southern Nuclear), acting for itself, Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and City of Dalton, Georgia (the licensees), dated August 8, 1997, as supplemented by letters dated March 9, May 6, July 6, July 31, September 4, and September 11, 1998, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

- Accordingly, the license is hereby amended by page changes to Facility Operating License No. NPF-5 and page changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-5 is hereby amended to read as follows:
 - (2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 155 are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance and shall be implemented prior to startup from the current refueling outage.

FOR THE NUCLEAR REGULATORY COMMISSION

Office of Nuclear Reactor Regulation

Attachment: Technical Specification and Operating License Changes

Date of Issuance: October 22, 1998

ATTACHMENT TO LICENSE AMENDMENT NO. 155

FACILITY OPERATING LICENSE NO. NPF-5

DOCKET NO. 50-366

Replace the following pages of the Facility Operating License and the Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the areas of change.

Operating License

Remove Insert 4 4

Technical Specifications

| Remove | Insert |
|---------|---------|
| 1.1-5 | 1.1-5 |
| 3.3-2 | 3.3-2 |
| 3.3-5 | 3.3-5 |
| 3.3-7 | 3.3-7 |
| 3.3-8a | |
| 3.3-8b | ******* |
| 3.3-9 | 3.3-9 |
| 3.3-28 | 3.3-28 |
| 3.3-29 | 3.3-29 |
| 3.3-30 | 3.3-30 |
| 3.4-25 | 3.4-25 |
| 3.4-26 | 3.4-26 |
| 3.4-27 | 3.4-27 |
| 5.0-16a | 5.0-16a |

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 2763 megawatts thermal in accordance with the conditions specified herein.

(2) <u>Technical Specifications</u>

The Technical Specifications in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 155 are hereby incorporated in the license. Southern Nuclear shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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.

Amendment No. 155

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Definitions 1.1

1.1 Definitions

| MINIMUM CRITICAL POWER RATIO (MCPR) (continued) | appropriate correlation(s) to cause some point in the assembly to experience boiling transition, divided by the actual assembly operating power. | | | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| MODE | A MODE shall correspond to any one inclusive combination of mode switch position, average reactor coolant temperature, and reactor vessel head closure bolt tensioning specified in Table 1.1-1 with fuel in the reactor vessel. | | | |
| OPERABLE — OPERABILITY | A system, subsystem, division, component, or device shall be OPERABLE or have OPERABILITY when it is capable of performing its specified safety function(s) and when all necessary attendant instrumentation, controls, normal or emergency electrical power, cooling and seal water, lubrication, and other auxiliary equipment that are required for the system, subsystem, division, component, or device to perform its specified safety function(s) are also capable of performing their related support function(s). | | | |
| PHYSICS TESTS | PHYSICS TESTS shall be those tests performed to measure the fundamental nuclear characteristics of the reactor core and related instrumentation. These tests are: | | | |
| | Described in Chapter 14, Initial Tests and Operation, of the FSAR; | | | |
| | Authorized under the provisions of 10 CFR 50.59; or | | | |
| | c. Otherwise approved by the Nuclear Regulatory Commission. | | | |
| RATED THERMAL POWER (RTP) | RTP shall be a total reactor core heat transfer rate to the reactor coolant of 2763 MWt. | | | |
| REACTOR PROTECTION SYSTEM (RPS) RESPONSE TIME | The RPS RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its RPS trip setpoint at the channel sensor until de-energization of the scram pilot valve | | | |

(continued)

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HATCH UNIT 2

ACTIONS (continued)

| | CONDITION | | REQUIRED ACTION | COMPLETION TIME |
|----|------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| c. | One or more Functions with RPS trip capability not maintained. | C.1 | Restore RPS trip capability. | 1 hour |
| D. | Required Action and associated Completion Time of Condition A, B, or C not met. | D.1 | Enter the Condition referenced in Table 3.3.1.1-1 for the channel. | Immediately |
| Ε. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | E.1 | Reduce THERMAL POWER to < 28% RTP. | 4 hours |
| F. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | F.1 | Be in MODE 2. | 6 hours |
| G. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | G.1 | Be in MODE 3. | 12 hours |
| н. | As required by Required Action D.1 and referenced in Table 3.3.1.1-1. | Н.1 | Initiate action to fully insert all insertable control rods in core cells containing one or more fuel assemblies. | Immediately |

(continued)

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HATCH UNIT 2

RPS Instrumentation 3.3.1.1

SURVEILLANCE REQUIREMENTS (continued)

8

| | | SURVEILLANCE | FREQUENCY |
|----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| SR | 3.3.1.1.7 | Only required to be met during entry into MODE 2 from MODE 1. | |
| | | Verify the IRM and APRM channels overlap. | 7 days |
| SR | 3.3.1.1.8 | Calibrate the local power range monitors. | 1000 effective full power hours |
| SR | 3.3.1.1.9 | Perfor CE att. FUNCTIONAL TEST. | 92 days |
| SR | 3.3.1.1 10 | For Function 2.a, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. | |
| | | Perform CHANNEL FUNCTIONAL TEST. | 184 days |
| SR | 3.3.1.1.11 | Verify Turbine Stop Valve — Closure and Turbine Control Valve Fast Closure, Trip Oil Pressure — Low Functions are not bypassed when THERMAL POWER is ≥ 28% RTP. | 18 months |
| SR | 3.3.1.1.12 | Perform CHANNEL FUNCTIONAL TEST. | 18 months |

(continued)

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| FUNCTION | APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS | REQUIRED CHANNELS PER TRIP SYSTEM | CONDITIONS REFERENCED FROM REQUIRED ACTION D.1 | | URVEILLANCE EQUIREMENTS | ALLOWABLE |
|-------------------------------------|------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|
| 1. Intermediate Range | Nonitor | | | | ************************************** | |
| a. Neutron Flux -) | | 3 | a | SR SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.4 3.3.1.1.6 3.3.1.1.7 3.3.1.1.13 3.3.1.1.15 | s 120/125 divisions of full scale |
| | 5(*) | 3 | н | SR SR SR SR | 3.3.1.1.1 3.3.1.1.5 3.3.1.1.13 3.3.1.1.15 | s 120/125 divisions of full scale |
| b. Inop | 2 | 3 | G | SR SR | 3.3.1.1.4 3.3.1.1.15 | NA |
| | 5(*) | 3 | н | SR | 3.3.1.1.5 3.3.1.1.15 | - |
| . Average Power Range Monitor | | | | - | | |
| a. Neutron Flux - H (Setdowr) | igh 2 | 3(c) | G | SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.7 3.3.1.1.8 3.3.1.1.10 3.3.1.1.10 3.3.1.1.13 | 5 20% RTP |
| b. Simulated Therma Power – High | il 1 | 3(c) | , | SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.2 3.3.1.1.8 3.3.1.1.10 3.3.1.1.13 | \$ 0.58 ¥ + 58% RTP and \$ 115.5% RTP(b) |
| c. Neutron Flux - H | igh 1 | 3(c) | F | SR SR SR SR SR | 3.3.1.1.1 3.3.1.1.2 3.3.1.1.8 3.3.1.1.10 3.3.1.1.10 3.3.1.1.13 | ≤ 120% RTP |
| d. Inop | 1,2 | 3(c) | G | SR | 3.3.1.1.10 | NA |
| | | | | | | (continued |

Table 3.3.1.1-1 (page 1 of 3) Reactor Protection System Instrumentation

(a) With any control rod withdrawn from a core cell containing one or more fuel assemblies.

(b) 0.58 W + 58% - 0.58 AW RTP when reset for single loop operation per LCO 3.4.1, "Recirculation Loops Operating."

(c) Each APRM channel provides inputs to both trip systems.

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| | FUNICTION | APPL!CABLE NODES OR OTHER SPECIFIED CONDITIONS | REQUIRED CHANNELS PER TRIP SYSTEM | CONDITIONS REFERENCED FROM REQUIRED ACTION D.1 | | URVEILLANCE Equirements | ALLOWABLE VALUE |
|-----|-------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------|--------------------|
| 8. | Turbine Stop Valve - Closure | 2 28% RTP | 4 | E | SR SR SR SR SR | 3.3.1.1.9 3.3.1.1.11 3.3.1.1.13 3.3.1.1.15 3.3.1.1.16 | ≾ 10% closed |
| 9. | Turbine Control Velve Fast Slosure, Trip Oil Pressure - Low | ≥ 28% RTP | 2 | E | \$R \$R \$R \$R \$R \$R | 3.3.1.1.9 3.3.1.1.11 3.3.1.1.13 3.3.1.1.15 3.3.1.1.16 | ≿ 600 paig |
| 10. | Reactor Mode Switch - Shutdown Position | 1,2 | 2 | G | SR SR | 3.3.1.1.12 3.3.1.1.15 | NA |
| | | 5(a) | 2 | н | SR SR | 3.3.1.1.12 3.3.1.1.15 | NA |
| 11. | Manual Scress | 1,2 | 2 | G | SR SR | 3.3.1.1.5 3.3.1.1.15 | NA |
| | | 5(a) | 2 | н | SR SR | 3.3.1.1.5 3.3.1.1.15 | NA |

Table 3.3.1.1-1 (page 3 of 3) Reactor Protection System Instrumentation

(a) With any control rod withdrawn from a core cell containing one or more fuel assemblies.

EOC-RPT Instrumentation 3.3.4.1

3.3 INSTRUMENTATION

3.3.4.1 End of Cycle Recirculation Pump Trip (EOC-RPT) Instrumentation

- LCO 3.3.4.1 a. Two channels per trip system for each EOC-RPT instrumentation Function listed below shall be OPERABLE:
 - 1. Turbine Stop Valve (TSV) Closure; and
 - Turbine Control Valve (TCV) Fast Closure, Trip Oil Pressure - Low.
 - OR
 - b. LCO 3.2.2, "MINIMUM CRITICAL POWER RATIO (MCPR)," limits for inoperable EOC-RPT as specified in the COLR are made applicable.

APPLICABILITY: THERMAL POWER ≥ 28% RTP.

ACTIONS

Separate Condition entry is allowed for each channel.

| CONDITION | | REQUIRED ACTION | COMPLETION TIM | |
|----------------------------------------|-----|---------------------------------------------------------------------------------------|----------------|--|
| A. One or more channels inoperable. | A.1 | Restore channel to OPERABLE status. | 72 hours | |
| | OR | | | |
| | A.2 | Not applicable if inoperable channel is the result of an inoperable breaker. | | |
| | | Place channel in trip. | 72 hours | |

(continued)

HATCH UNIT 2

ACTIONS (continued)

| | CONDITION | | REQUIRED ACTION | COMPLETION TIME |
|----|-----------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------|-----------------|
| Β. | One or more Functions with EOC-RPT trip capability not maintained. | B.1 <u>OR</u> | Restore EOC-RPT trip capability. | 2 hours |
| | AND MCPR limit for inoperable EOC-RPT not made applicable. | B.2 | Apply the MCPR limit for inoperable EOC-RPT as specified in the COLR. | 2 hours |
| c. | Required Action and associated Completion Time not met. | C.1 OR | Remove the associated recirculation pump from service. | 4 hours |
| | | C.2 | Reduce THERMAL POWER to < 28% RTP. | 4 hours |

SURVEILLANCE REQUIREMENTS

When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided the associated Function maintains EOC-RPT trip capability.

| IN LOUP WITH A DE REGISSION OF THE APPLICATION OF THE | FREQUENCY | |
|-------------------------------------------------------|----------------------------------|---------|
| SR 3.3.4.1.1 | Perform CHANNEL FUNCTIONAL TEST. | 92 days |

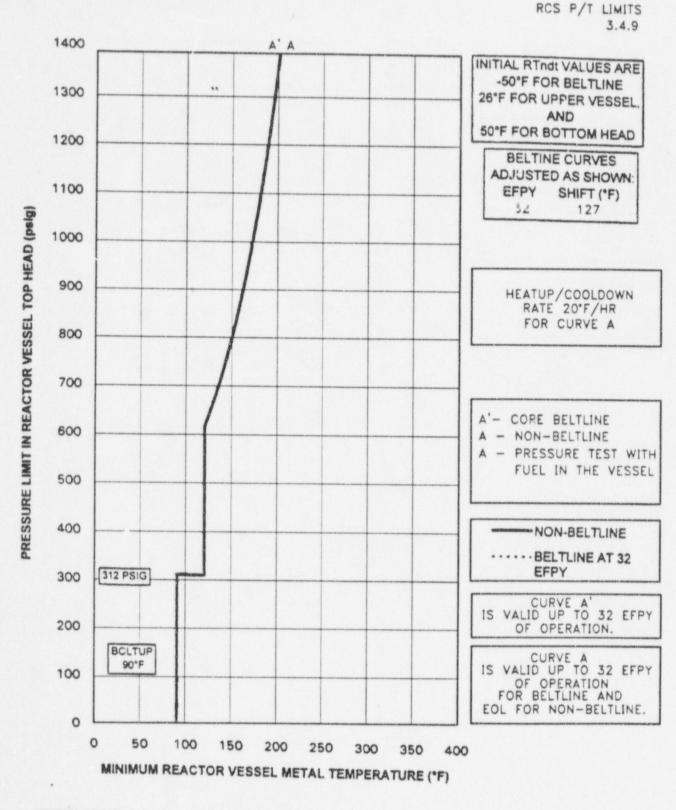
(continued)

EOC-RPT Instrumentation 3.3.4.1

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SURVEILLANCE REQUIREMENTS (continued)

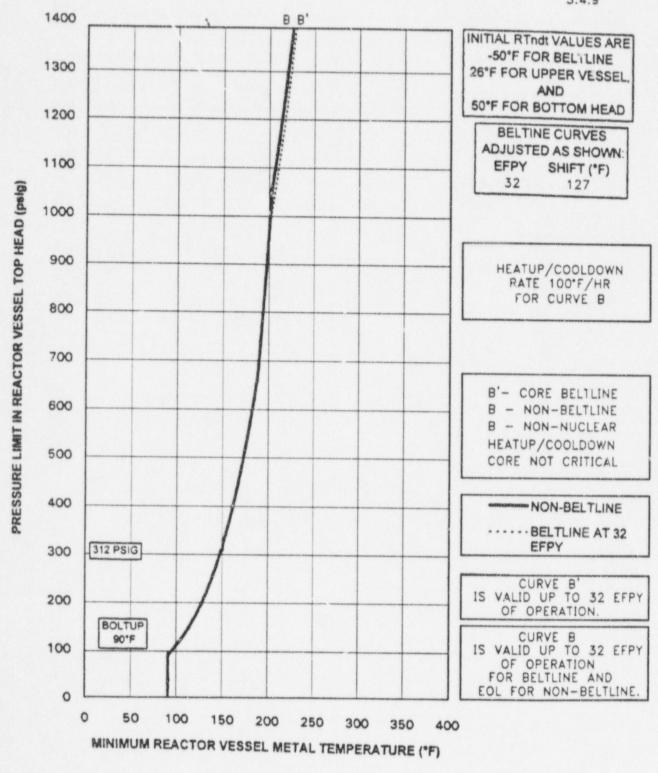
| | Manufacture of the second s | SURVEILLANCE | FREQUENCY |
|----|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| SR | 3.3.4.1.2 | Verify TSV — Closure and TCV Fast Closure, Trip Oil Pressure — Low Functions are not bypassed when THERMAL POWER is $\geq 28\%$ RTP. | 18 months |
| SR | 3.3.4.1.3 | Perform CHANNEL CALIBRATION. The Allowable Values shall be: | 18 months |
| | | TSV — Closure: $\leq 10\%$ closed; and TCV Fast Closure, Trip Oil Pressure — Low: ≥ 600 psig. | |
| SR | 3.3.4.1.4 | Perform LOGIC SYSTEM FUNCTIONAL TEST including breaker actuation. | 18 months |
| SR | 3.3.4.1.5 | Breaker interruption time may be assumed from the most recent performance of SR 3.3.4.1.6. | |
| | | Verify the EOC-RPT SYSTEM RESPONSE TIME is within limits. | 18 months on a STAGGERED TEST BASIS |
| SR | 3.3.4.1.6 | Determine RPT breaker interruption time. | 60 months |



(ACAD] F3491)

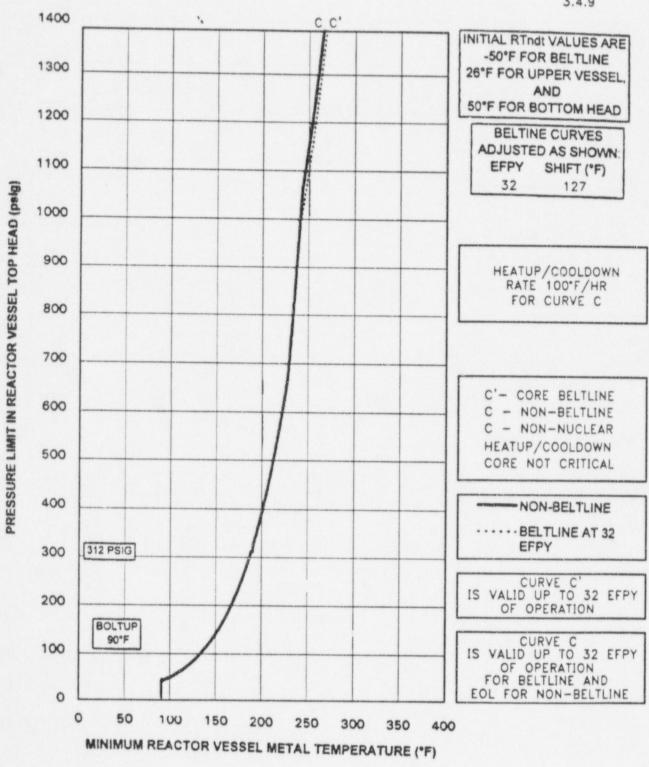
Figure 3.4.9-1 (Page 1 of 1) Pressure/Temperature Limits for Inservice Hydrostatic and Inservice Leakage Tests

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Figure 3.4.9-2 (Page 1 of 1) Pressure/Temperature Limits for Non-Nuclear Heatup, Low Power Physics Tests, and Cooldown Following a Shutdown



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Figure 3.4.9-3 (Page 1 of 1) Pressure/Temperature Limits for Criticality

Hatch Unit 2

5.5 Programs and Manuals

- 5.5.11 <u>Technical Specifications (TS) Bases Control Program</u> (continued)
 - d. Proposed changes that meet the criteria of b. above shall be reviewed and approved by the NRC prior to implementation. Changes to the Bases implemented without prior NRC approval shall be provided to the NRC on a frequency consistent with 10 CFR 50.71(e).

5.5.12 Primary Containment Leakage Rate Testing Program

A program shall be established to implement the leakage rate testing of the primary containment as required by 10 CFR 50.54(o) and 10 CFR 50, Appendix J, Option B, as modified by approved exemptions. This program shall be in accordance with the guidelines contained in Regulatory Guide 1.163, "Performance-Based Containment Leak-Test Program," dated September 1995.

The peak calculated primary containment internal pressure for the design basis loss of coolant accident, P_a , is 46.9 psig.

The maximum allowable primary containment leakage rate, L, at P is 1.2% of primary containment air weight per day.

Leakage rate acceptance criteria are:

- a. Primary containment overall leakage rate acceptance criterion is ≤ 1.0 L. During the first unit startup following testing in accordance with this program, the leakage rate acceptance criteria are ≤ 0.60 L. for the combined Type B and Type C tests, and ≤ 0.75 L. for Type A tests;
- b. Air lock testing acceptance criteria are:
 - 1) Overall air lock leakage rate is $\leq 0.05 L_a$ when tested at $\leq P_a$,
 - 2) For each door, leakage rate is ≤ 0.01 L, when the gap between the door seals is pressurized to ≥ 10 psig for at least 15 minutes.

The provisions of SR 3.0.2 do not apply to the test frequencies specified in the Primary Containment Leakage Rate Testing Program.

(continued)

HATCH UNIT 2