

DO NOT REMOVE



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

Docket Nos. 50-259
260
and 296

March 11, 1983

Posted
Amdt. 87
to DPR-33
(See Correction letter
of 3-~~28~~ 83)

Mr. Hugh G. Parris
Manager of Power
Tennessee Valley Authority
500 A Chestnut Street, Tower II
Chattanooga, Tennessee 37401

Dear Mr. Parris:

The Commission has issued the enclosed Amendment Nos. 87, 84 and ~~58~~⁵⁸ to Facility Operating License Nos. DPR-33, DPR-52 and DPR-68 respectively for the Browns Ferry Nuclear Plant, Units 1, 2 and 3. The amendments consist of changes to the Appendix B Environmental Technical Specifications (ETS) in response to your application dated February 11, 1983, and subsequent discussions between the NRC staff and your staff. These changes have been discussed with and agreed to by members of your staff.

The amendments delete the Appendix B Environmental Technical Specifications (ETS) which pertain to non-radiological water quality-related requirements, as required by the Federal Water Pollution Control Act Amendments of 1972.

Your basis for the requested deletion of water quality limits and monitoring programs is that these aquatic requirements are now under the jurisdiction of the U.S. Environmental Protection Agency (EPA) as established by the Federal Water Pollution Control Act Amendments of 1972. Therefore, water quality conditions in existing reactor operating licenses should be removed as a matter of law where the licensee holds, as you do, an effective National Pollutant Discharge Elimination System (NPDES) permit.

We concur in the deletion of the aquatic requirements and will rely on the NPDES permit system which is administered by EPA for regulation and protection of the aquatic environment. However, the NRC staff still wishes to remain informed about any changes in your NPDES permit and any violations of this permit. Accordingly, as discussed with your staff, you have agreed to provide NRC with a copy of any changes to the NPDES discharge permit and any permit violations requiring notification to the permitting agency at the time this information is reported to or received from the permitting agency. This information is to be submitted to the appropriate Regional Administrator with a copy to the Director, Office of Nuclear Reactor Regulation.

Please confirm this commitment in writing within 30 days of receipt of this letter.

We have determined that the deletion of these water quality requirements is a ministerial action required as a matter of law and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendments involve an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of the amendments.

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

A copy of the Notice of Issuance is also enclosed.

Sincerely,



Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Enclosures:

1. Amendment No. 87 to DPR-33
2. Amendment No. 84 to DPR-52
3. Amendment No. 53 to DPR-68
4. Notice of Issuance ⁵⁸

cc w/Enclosures
See next page

Mr. Hugh G. Parris

cc:

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Atlanta, Georgia 30308

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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-259

BROWNS FERRY NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 87
License No. DPR-33

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the license) dated February 11, 1983 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility License No. DPR-33 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 87, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 11, 1983

ATTACHMENT TO LICENSE AMENDMENT NO. 87

FACILITY OPERATING LICENSE NO. DPR-33

DOCKET NO. 50-259

Replace the following pages of the Appendix B Technical Specifications with the enclosed pages as indicated. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

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BROWNS FERRY NUCLEAR PLANT

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1.0 Definitions

The following terms are defined for uniform interpretation of these specifications.

Administrative Terminology

Unusual event with the potential for a significant environmental impact-- and event that results in noncompliance with an environmental technical specification, or an event that results in uncontrolled or unplanned release of radioactive discharges from the Browns Ferry Nuclear Plant in excess of applicable Federal, state, and local regulations.

Instrumentation Properties

Accuracy-- a measure of the difference between the true and measured values of a given parameter, hence a measure of error.

Minimum detectable level--that level below which a specific detector, instrument, or analysis is unable to detect the presence of a given constituent.

Sensitivity--the minimum change in the variable detected by a given sensor.

3.0 DESIGN FEATURES AND OPERATING PRACTICES

This section describes those design and operating practices not covered in Section 2.0, "Limiting Conditions for Operation" and which, if changed, could result in significant effects on environmental impacts.

(f) Fish Impingement on Intake Screens

- a. Preparation of the proposed environmental Technical Specifications.
- b. Coordination of environmental Technical Specification development with the safety Technical Specifications to avoid conflicts and maintain consistency.
- c. Proposed changes to the Environmental Technical Specifications and the evaluated impact of the change.
- d. Proposed written procedures, as described in Section 5.5 and proposed changes thereto which could significantly affect the plant's environmental impact.
- e. Proposed changes or modifications to plant systems or equipment which could significantly affect the plant's environmental impact and the evaluated impact of the changes.
- f. Results of the environmental monitoring programs prior to their submittal in each Annual Operating Report. See sections 5.6.1 and 5.6.2.
- g. Reported instances of violations of environmental technical specifications. Where investigation indicates, evaluation and formulation of recommendations to prevent recurrence.

5.4 Action to be Taken if an Environmental LCO is Exceeded

5.5 Procedures

5.5.1

- 5.5.2 Detailed written procedures for the environmental monitoring program outside the plant, including check-off lists, where applicable, shall be prepared, receive appropriate administrative approval and be adhered to.

A quality control program for the radiological environmental monitoring program has been established with the Alabama Department of Public Health Administration Laboratory and the Environmental Protection Agency, Montgomery, Alabama. Samples of air, water, milk, and vegetation collected around the BPNP are forwarded to these laboratories for analysis; and results are exchanged for comparison.

An internal quality control program for the radiological environmental monitoring program is being conducted whereby roughly one tenth of all samples are analyzed in duplicate. A quality control program is conducted with the Environmental Protection Agency in Las Vegas in which spiked samples are analyzed and the results compared.

5.5.3 Written procedures described in Section 5.5.1 shall be reviewed by PORC and approved by the Power Plant Superintendent prior to implementation. Temporary changes to a procedure which do not change the intent of the approved procedure may be made by a member of the plant staff knowledgeable in the area affected by the procedure and the additional approval of a member of the plant staff who holds a Senior Reactor Operator License. Such changes shall be documented and subsequently reviewed by PORC and approved by the Power Plant Superintendent.

5.6 Reporting Requirements

5.6.1

5.6.2 Routing Reporting

a.

b. Radiological Environmental Monitoring

Routine Reporting

Reporting Requirements:

1. TVA shall prepare a report entitled "Environmental Radioactivity Levels - Browns Ferry Nuclear Plant - Annual Report." The report shall cover the previous 12 months of operation and shall be submitted to the Director of the NRC Region II Office (with a copy to the Director, Office of Nuclear Reactor Regulation) within 120 days after January 1 of each year. The report format shown in Regulatory Guide 4.8 Title 1 shall be used. The report shall include summaries, interpretations, and evaluations of the results of the radiological environmental surveillance activities for the report period, including a comparison with preoperational studies and/or operational controls (as appropriate), and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of irreversible damage are detected by the monitoring, the licensee shall provide an analysis of the problem and a proposed course of action to alleviate the problem.

5. If such levels as discussed in 5.6.3(a)3 and 5.6.3(a)4 can be definitively shown to result from sources other than the Browns Ferry Nuclear Plant, the reporting action called for in 5.6.3(a)3 and 5.6.3(a)4 need not be taken. Justification for assigning high levels of radioactivity to sources other than the Browns Ferry Nuclear Plant must be provided in the annual report.

c. Changes

1. Where a change to the plant design, the plant operation, or to procedures is planned which could have a significant adverse effect on the environment or which involves an environmental matter or question not previously reviewed and evaluated by the NRC, a request for the change shall be made to the NRC before implementation.

3. Requests for changes in environmental technical specifications shall be submitted to the Director, Division of Licensing, USNRC, for prior review and authorization.

3.7 Environmental Records

- 3.7.1 Operational information concerning the implant portion of the environmental technical specifications shall be kept by DWP in a manner convenient for review. This includes plant records and/or logs as indicated below:

- a. Related plant operations
- b. Related maintenance activities
- c.
- d. Updated, corrected, and as-built drawings of the plant

Items (a) through (c) above shall be retained for a period of at least six years and item (d) shall be retained for the life of the plant.

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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-260

BROWNS FERRY NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 84
License No. DPR-52

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated February 11, 1983 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility License No. DPR-52 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 84, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 11, 1983

ATTACHMENT TO LICENSE AMENDMENT NO. 84

FACILITY OPERATING LICENSE NO. DPR-52

DOCKET NO. 50-260

Replace the following pages of the Appendix B Technical Specifications with the enclosed pages as indicated. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

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1.0 Definitions

The following terms are defined for uniform interpretation of these specifications.

Administrative Terminology

Unusual event with the potential for a significant environmental impact-- and event that results in noncompliance with an environmental technical specification, or an event that results in uncontrolled or unplanned release of radioactive discharges from the Browns Ferry Nuclear Plant in excess of applicable Federal, state, and local regulations.

Instrumentation Properties

Accuracy-- a measure of the difference between the true and measured values of a given parameter, hence a measure of error.

Minimum detectable level--that level below which a specific detector, instrument, or analysis is unable to detect the presence of a given constituent.

Sensitivity--the minimum change in the variable detected by a given sensor.

3.0 DESIGN FEATURES AND OPERATING PRACTICES

This section describes those design and operating practices not covered in Section 2.0, "Limiting Conditions for Operation" and which, if changed, could result in significant effects on environmental impacts.

(f) Fish Impingement on Intake Screens

- a. Preparation of the proposed environmental Technical Specifications.
- b. Coordination of environmental Technical Specification development with the safety Technical Specifications to avoid conflicts and maintain consistency.
- c. Proposed changes to the Environmental Technical Specifications and the evaluated impact of the change.
- d. Proposed written procedures, as described in Section 5.5 and proposed changes thereto which could significantly affect the plant's environmental impact.
- e. Proposed changes or modifications to plant systems or equipment which could significantly affect the plant's environmental impact and the evaluated impact of the changes.
- f. Results of the environmental monitoring programs prior to their submittal in each Annual Operating Report. See sections 5.6.1 and 5.6.2.
- g. Reported instances of violations of environmental technical specifications. Where investigation indicates, evaluation and formulation of recommendations to prevent recurrence.

5.4 Action to be Taken if an Environmental LCO is Exceeded

5.5 Procedures

5.5.1

- 5.5.2 Detailed written procedures for the environmental monitoring program outside the plant, including check-off lists, where applicable, shall be prepared, receive appropriate administrative approval and be adhered to.

A quality control program for the radiological environmental monitoring program has been established with the Alabama Department of Public Health Administration Laboratory and the Environmental Protection Agency, Montgomery, Alabama. Samples of air, water, milk, and vegetation collected around the BFNP are forwarded to these laboratories for analysis; and results are exchanged for comparison.

An internal quality control program for the radiological environmental monitoring program is being conducted whereby roughly one tenth of all samples are analyzed in duplicate. A quality control program is conducted with the Environmental Protection Agency in Las Vegas in which spiked samples are analyzed and the results compared.

5.5.3 Written procedures described in Section 5.5.1 shall be reviewed by PORC and approved by the Power Plant Superintendent prior to implementation. Temporary changes to a procedure which do not change the intent of the approved procedure may be made by a member of the plant staff knowledgeable in the area affected by the procedure and the additional approval of a member of the plant staff who holds a Senior Reactor Operator License. Such changes shall be documented and subsequently reviewed by PORC and approved by the Power Plant Superintendent.

5.6 Reporting Requirements

5.6.1

5.6.2 Routing Reporting

a.

b. Radiological Environmental Monitoring

Routine Reporting

Reporting Requirements:

1. TVA shall prepare a report entitled "Environmental Radioactivity Levels - Browns Ferry Nuclear Plant - Annual Report." The report shall cover the previous 12 months of operation and shall be submitted to the Director of the NRC Region II Office (with a copy to the Director, Office of Nuclear Reactor Regulation) within 120 days after January 1 of each year. The report format shown in Regulatory Guide 4.8 Title 1 shall be used. The report shall include summaries, interpretations, and evaluations of the results of the radiological environmental surveillance activities for the report period, including a comparison with preoperational studies and/or operational controls (as appropriate), and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of irreversible damage are detected by the monitoring, the licensee shall provide an analysis of the problem and a proposed course of action to alleviate the problem.

5. If such levels as discussed in 5.6.3(a)3 and 5.6.3(a)4 can be definitely shown to result from sources other than the Browns Ferry Nuclear Plant, the reporting action called for in 5.6.3(a)3 and 5.6.3(a)4 need not be taken. Justification for assigning high levels of radioactivity to sources other than the Browns Ferry Nuclear Plant must be provided in the annual report.

c. Changes

1. Where a change to the plant design, the plant operation, or to procedures is planned which could have a significant adverse effect on the environment or which involves an environmental matter or question not previously reviewed and evaluated by the NRC, a request for the change shall be made to the NRC before implementation.

3. Requests for changes in environmental technical specifications shall be submitted to the Director, Division of Licensing, USNRC, for prior review and authorization.

5.7 Environmental Records

5.7.1 Operational information concerning the inplant portion of the environmental technical specifications shall be kept by DNP in a manner convenient for review. This includes plant records and/or logs as indicated below:

- a. Related plant operations
- b. Related maintenance activities
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- d. Updated, corrected, and as-built drawings of the plant

Item (a) through (c) above shall be retained for a period of at least six years and item (d) shall be retained for the life of the plant.

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NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-296

BROWNS FERRY NUCLEAR PLANT, UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. ~~57~~ 58
License No. DPR-68

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendments by Tennessee Valley Authority (the licensee) dated February 11, 1983 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility License No. DPR-68 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. ~~57~~ 58 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 11, 1983

ATTACHMENT TO LICENSE AMENDMENT NO. ~~53~~ 58

FACILITY OPERATING LICENSE NO. DPR-68

DOCKET NO. 50-296

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5.6 Reporting Requirements

5.6.1

5.6.2 Routing Reporting

a.

b. Radiological Environmental Monitoring

Routine Reporting

Reporting Requirements:

1. TVA shall prepare a report entitled "Environmental Radioactivity Levels - Browns Ferry Nuclear Plant - Annual Report." The report shall cover the previous 12 months of operation and shall be submitted to the Director of the NRC Region II Office (with a copy to the Director, Office of Nuclear Reactor Regulation) within 120 days after January 1 of each year. The report format shown in Regulatory Guide 4.8 Title 1 shall be used. The report shall include summaries, interpretations, and evaluations of the results of the radiological environmental surveillance activities for the report period, including a comparison with preoperational studies and/or operational controls (as appropriate), and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of irreversible damage are detected by the monitoring, the licensee shall provide an analysis of the problem and a proposed course of action to alleviate the problem.

3. If such levels as discussed in 5.6.3(a)3 and 5.6.3(a)4 can be definitely shown to result from sources other than the Browns Ferry Nuclear Plant, the reporting action called for in 5.6.3(a)3 and 5.6.3(a)4 need not be taken. Justification for assigning high levels of radioactivity to sources other than the Browns Ferry Nuclear Plant must be provided in the annual report.

c. Changes

1. Where a change to the plant design, the plant operation, or to procedures is planned which could have a significant adverse effect on the environment or which involves an environmental matter or question not previously reviewed and evaluated by the NRC, a request for the change shall be made to the NRC before implementation.

3. Requests for changes in environmental technical specifications shall be submitted to the Director, Division of Licensing, USNRC, for prior review and authorization.

5.7 Environmental Records

5.7.1 Operational information concerning the inplant portion of the environmental technical specifications shall be kept by DNP in a manner convenient for review. This includes plant records and/or logs as indicated below:

- a. Related plant operations
- b. Related maintenance activities
- c.
- d. Updated, corrected, and as-built drawings of the plant

Item (a) through (c) above shall be retained for a period of at least six years and item (d) shall be retained for the life of the plant.

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Amendment No. ~~57~~
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UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-259/260/296TENNESSEE VALLEY AUTHORITYNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITYOPERATING LICENSES

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 87 , 84 and ~~58~~⁵⁸ to Facility Operating License Nos. DPR-33, DPR-52 and DPR-68 issued to the Tennessee Valley Authority (the licensee), which revised Technical Specifications for operation of the Browns Ferry Nuclear Plant, Units 1, 2 and 3. The amendments are effective as of the date of issuance.

The amendments delete the Appendix B Environmental Technical Specifications (ETS) which pertain to non-radiological water quality-related requirements, as required by the Federal Water Pollution Control Act Amendments of 1972.

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

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

For further details with respect to this action, see (1) the application for amendments dated February 11, 1983, (2) Amendment Nos. 87 , 84 , and ~~88~~⁵⁸ to Facility Operating License Nos. DPR-33, DPR-52, and DPR-68 and (3) the Commission's letter to the licensee dated March 11, 1983 . All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Athens Public Library, South and Forrest, Athens, Alabama. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 11th day of March 1983.

FOR THE NUCLEAR REGULATORY COMMISSION



Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing