

OCT 31 1974

Docket Nos. 50-280
and 50-281

Virginia Electric & Power Company
ATTN: Mr. Stanley Ragone
Senior Vice President
P. O. Box 26666
Richmond, Virginia 23261

Gentlemen:

The Commission has issued the enclosed Amendments No. 2 to Facility Licenses No. DPR-32 and DPR-37 for the Surry Power Station, Units 1 and 2. The amendments include Change No. 17 to the Technical Specifications for each license and are in response to your request dated August 19, 1974.

The amendments permit the licensee to possess special nuclear material in the form of reactor fuel in the amount required for reactor operation. In addition, a new technical specification is added to Appendix A of each license that requires leakage testing of miscellaneous radioactive materials sources.

Copies of the related Safety Evaluation and the Federal Register Notice are also enclosed.

Sincerely,

Original signed by:
Karl R. Goller

Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Enclosures:

1. Amendment No. 2 to DPR-32
2. Amendment No. 2 to DPR-37
3. Safety Evaluation
4. Federal Register Notice

cc w/enclosures:
See next page

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cc w/enclosures:

George D. Gibson, Esquire
 Hunton, Williams, Gay & Gibson
 P. O. Box 1535
 Richmond, Virginia 23261

Mr. Sherlock Holmes, Chairman
 Board of Supervisors of Surry County
 Surry County Courthouse, Virginia 23683

Swem Library
 College of William & Mary
 Williamsburg, Virginia 23185

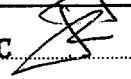
cc w/enclosures & 8/19/74 ltr:
 Ms. Susan T. Wilburn
 Commonwealth of Virginia
 Council on the Environment
 Eighth Street Office Building
 Richmond, Virginia 23219

Mr. Robert Bianco
 Environmental Protection Agency
 Curtis Building
 6th and Walnut Streets
 Philadelphia, Pennsylvania 19106

bcc: H. J. McAlduff, OROO
 J. R. Buchanan, ORNL
 T. B. Abernathy, DTIE

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VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-280

SURRY POWER STATION UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2
License No. DPR-32

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated August 19, 1974, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, the license is amended to revise paragraphs 2.A., 2.B., 2.C., and 2.D. and paragraph 3.B. as indicated below:

"2.A. Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Surry County, Virginia, in accordance with the procedures and limitations set forth in this license;

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- B. 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;
- C. 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;
- D. Pursuant to the Act and 10 CFR Part 30, to receive, possess, and use at any time 100 millicuries each of any byproduct material without restriction to chemical or physical form, for sample analysis or instrument calibration;
- E. Pursuant to the Act and 10 CFR Parts 40 and 70, to receive, possess, and use at any time 100 milligrams each of any source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration;"

"3.B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 17."

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

FOR THE ATOMIC ENERGY COMMISSION

Original signed by:
Karl R. Goller

Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Attachment:
Change No. 17 to Technical Specifications

Date of Issuance: OCT 31 1974					
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Revise Appendix A as follows:

1. Add new Section 4.16.
2. Replace page 6.5-1 with attached page.
3. Replace page 6.6-8a with attached page.

DOCKET NO. 50-280

SURRY POWER STATION UNIT NO. 1

VIRGINIA ELECTRIC & POWER COMPANY

FACILITY OPERATING LICENSE NO. DPR-32

CHARGE NO. 17 TO THE TECHNICAL SPECIFICATIONS

ATTACHMENT TO LICENSE AMENDMENT NO. 2

4.16 LEAKAGE TESTING OF MISCELLANEOUS RADIOACTIVE MATERIALS SOURCES

Applicability

Applies to miscellaneous radioactive materials sealed sources not subject to core flux and that are not stored and out of use.

Objective

The objective is to prevent the ingestion or inhalation of source material released from leaking sealed sources from exceeding one maximum permissible body burden for total body irradiation.

Specifications

A. Source Leakage Test

Radioactive sources shall be leak tested for contamination. The leakage test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, it shall immediately be withdrawn from use, decontaminated, and repaired or be disposed of in accordance with Commission regulations.

Those quantities of byproduct material that exceed the quantities listed in 10 CFR 30.71 Schedule B are to be leak tested in accordance with the schedule shown in Surveillance Requirements. All other sources (including alpha emitters) containing greater than 0.1 microcurie are also to be leak tested in accordance with the Surveillance Requirements.

B. Surveillance Requirements

1. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the

Commission or an agreement State as follows:

- a. Each sealed source, except startup sources subject to core flux, containing radioactive material other than Hydrogen 3 with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months.
 - b. The periodic leak test required does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another user unless they have been leak tested within six months prior to the date of use or transfer. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, sealed sources shall not be put into use until tested.
 - c. Startup sources shall be leak tested prior to and following any repair or maintenance and before being subjected to core flux.
2. A complete inventory of radioactive materials in possession shall be maintained current at all times.

Basis

Ingestion or inhalation of source material may give rise to total body or organ irradiation. This specification assures that leakage from radioactive material sources does not exceed allowable limits. In the unlikely event that those quantities of radioactive byproduct materials of interest to this specification which are exempt from leakage testing are ingested or inhaled, they represent less than one maximum permissible body burden for total body irradiation. The limits for all other sources (including alpha emitters) are based upon 10 CFR 70.39(c) limits for plutonium.

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6.5 STATION OPERATING RECORDS

Specification

- A. Records and logs relative to the following items shall be retained for 5 years, unless a longer period is required by applicable regulations.
1. Records of normal plant operation, including power levels and periods of operation at each power level.
 2. Records of principle maintenance activities, including inspection, repair, substitution, or replacement of principle items of equipment pertaining to nuclear safety.
 3. Record of abnormal occurrences
 4. Record of periodic checks, inspections, and calibrations performed to verify that surveillance requirements are being met.
 5. Records of any special reactor test or experiments pursuant to 10 CFR 50.59.
 6. Records of changes made in the Operating Procedures pursuant to 10 CFR 50.59.
 7. Records of shipment of radioactive material.
 8. Records of leakage testing of miscellaneous radioactive materials sources test results, in units of microcuries, for leak tests performed pursuant to Technical Specification 4.16.

10. Occupational Personnel Radioation Exposure

Tabulate the number of personnel exposures for facility operations personnel (permanent and temporary) in the following exposure increments for the reporting period:

less than 100 mrem, 100-250 mrem, 250-500 mrem, 500-750 mrem, 750-1000 mrem, 1-2 rem, 2-3 rem, 3-4 rem, 4-5 rem, 5-6 rem, and greater than 6 rem.

Tabulate the number of personnel receiving more than 500 mrem exposure in the reporting period according to duty function, i.e., routine plant surveillance and inspection (regular duty), routine plant maintenance, special plant maintenance (describe maintenance), routine refueling operations, special refueling operations (describe operation), and other job related exposures. Annually tabulate the number of personnel receiving more than 3 rem and report major cause(s).

11. Primary Coolant Chemistry

A tabulation on a monthly basis of the maximum, average, and minimum values for the following primary coolant system parameters:

- (i) gross radioactivity in uCi/ml,
- (ii) suspended solids in parts per million,
- (iii) gross tritium in uCi/ml,
- (iv) iodine-131 in uCi/ml,
- (v) ratio of iodine-131 to iodine-133,
- (vi) hydrogen in cc per kg,
- (vii) lithium in parts per million,
- (viii) boron-10 in parts per million,
- (ix) oxygen-16 in parts per billion,
- (x) chloride in parts per million, and
- (xi) pH at 25°C.

12. Leakage Testing of Miscellaneous Radioactive Materials Sources

Include the results of the required leak tests in the semi-annual routine operating reports if the tests reveal the presence of 0.005 microcurie or more of removable contamination.

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-281

SURRY POWER STATION UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2
License No. DPR-37

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated August 19, 1974, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, the license is amended to revise paragraphs 2.A., 2.B., 2.C., and 2.D. and paragraph 3.B. as indicated below:

"2.A. Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Surry County, Virginia, in accordance with the procedures and limitations set forth in this license;

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- B. 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;
- C. 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;
- D. Pursuant to the Act and 10 CFR Part 30, to receive, possess, and use at any time 100 millicuries each of any byproduct material without restriction to chemical or physical form, for sample analysis or instrument calibration;
- E. Pursuant to the Act and 10 CFR Parts 40 and 70, to receive, possess, and use at any time 100 milligrams each of any source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration;"

"3.B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licenses shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 17."

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

FOR THE ATOMIC ENERGY COMMISSION

Original signed by:
Karl R. Goller

Original signed by:
**Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing**

**Attachment:
Change No. 17 to Technical Specifications**

Date of Issuance: OCT 31 1974

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ATTACHMENT TO LICENSE AMENDMENT NO. 2
CHANGE NO. 17 TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-37
VIRGINIA ELECTRIC & POWER COMPANY
SURREY POWER STATION UNIT NO. 2
DOCKET NO. 50-281

Revise Appendix A as follows:

1. Add new Section 4.16.
2. Replace page 6.5-1 with attached page.
3. Replace page 6.6-8a with attached page.

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4.16 LEAKAGE TESTING OF MISCELLANEOUS RADIOACTIVE MATERIALS SOURCES

Applicability

Applies to miscellaneous radioactive materials sealed sources not subject to core flux and that are not stored and out of use.

Objective

The objective is to prevent the ingestion or inhalation of source material released from leaking sealed sources from exceeding one maximum permissible body burden for total body irradiation.

Specifications

A. Source Leakage Test

Radioactive sources shall be leak tested for contamination. The leakage test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, it shall immediately be withdrawn from use, decontaminated, and repaired or be disposed of in accordance with Commission regulations.

Those quantities of byproduct material that exceed the quantities listed in 10 CFR 30.71 Schedule B are to be leak tested in accordance with the schedule shown in Surveillance Requirements. All other sources (including alpha emitters) containing greater than 0.1 microcurie are also to be leak tested in accordance with the Surveillance Requirements.

B. Surveillance Requirements

1. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the

Commission or an agreement State as follows:

- a. Each sealed source, except startup sources subject to core flux, containing radioactive material other than Hydrogen 3 with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months.
 - b. The periodic leak test required does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another user unless they have been leak tested within six months prior to the date of use or transfer. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, sealed sources shall not be put into use until tested.
 - c. Startup sources shall be leak tested prior to and following any repair or maintenance and before being subjected to core flux.
2. A complete inventory of radioactive materials in possession shall be maintained current at all times.

Basis

Ingestion or inhalation of source material may give rise to total body or organ irradiation. This specification assures that leakage from radioactive material sources does not exceed allowable limits. In the unlikely event that those quantities of radioactive byproduct materials of interest to this specification which are exempt from leakage testing are ingested or inhaled, they represent less than one maximum permissible body burden for total body irradiation. The limits for all other sources (including alpha emitters) are based upon 10 CFR 70.39(c) limits for plutonium.

OCT 31 1974

6.5 STATION OPERATING RECORDS

Specification

- A. Records and logs relative to the following items shall be retained for 5 years, unless a longer period is required by applicable regulations.
1. Records of normal plant operation, including power levels and periods of operation at each power level.
 2. Records of principle maintenance activities, including inspection, repair, substitution, or replacement of principle items of equipment pertaining to nuclear safety.
 3. Record of abnormal occurrences
 4. Record of periodic checks, inspections, and calibrations performed to verify that surveillance requirements are being met.
 5. Records of any special reactor test or experiments pursuant to 10 CFR 50.59.
 6. Records of changes made in the Operating Procedures pursuant to 10 CFR 50.59.
 7. Records of shipment of radioactive material.
 8. Records of leakage testing of miscellaneous radioactive materials sources test results, in units of microcuries, for leak tests performed pursuant to Technical Specification 4.16.

10. Occupational Personnel Radioation Exposure

Tabulate the number of personnel exposures for facility operations personnel (permanent and temporary) in the following exposure increments for the reporting period:

less than 100 mrem, 100-250 mrem, 250-500 mrem, 500-750 mrem, 750-1000 mrem, 1-2 rem, 2-3 rem, 3-4 rem, 4-5 rem, 5-6 rem, and greater than 6 rem.

Tabulate the number of personnel receiving more than 500 mrem exposure in the reporting period according to duty function, i.e., routine plant surveillance and inspection (regular duty), routine plant maintenance, special plant maintenance (describe maintenance), routine refueling operations, special refueling operations (describe operation), and other job related exposures. Annually tabulate the number of personnel receiving more than 3 rem and report major cause(s).

11. Primary Coolant Chemistry

A tabulation on a monthly basis of the maximum, average, and minimum values for the following primary coolant system parameters:

- (i) gross radioactivity in uCi/ml,
- (ii) suspended solids in parts per million,
- (iii) gross tritium in uCi/ml,
- (iv) iodine-131 in uCi/ml,
- (v) ratio of iodine-131 to iodine-133,
- (vi) hydrogen in cc per kg,
- (vii) lithium in parts per million,
- (viii) boron-10 in parts per million,
- (ix) oxygen-16 in parts per billion,
- (x) chloride in parts per million, and
- (xi) pH at 25°C.

12. Leakage Testing of Miscellaneous Radioactive Materials Sources

Include the results of the required leak tests in the semi-annual routine operating reports if the tests reveal the presence of 0.005 microcurie or more of removable contamination.

SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING
SUPPORTING AMENDMENTS NO. 2 TO LICENSES NO. DPR-32 AND DPR-37

CHANGE NO. 17 TO TECHNICAL SPECIFICATIONS

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION, UNITS 1 AND 2

DOCKET NOS. 50-280 AND 50-281

Introduction

By letter dated August 19, 1974, Virginia Electric and Power Company (VEPCO) requested that the licenses for Surry 1 and Surry 2 be amended to permit the licensee to receive, possess, and use up to 2650 kg of U-235 in reactor fuel assemblies. Surry 1 and Surry 2 are presently permitted 1863 kg and 1820 kg of U-235, respectively, which is sufficient only to include the initial core loadings of 1769 kg and 1758 kg of U-235. The reason for the requested license change is to allow for receipt of fresh fuel for reloading and storage of spent fuel prior to chemical reprocessing.

Discussion

To provide for added flexibility in operating nuclear power plants, operating licenses currently being issued do not specify a kilogram limit to the allowable amount of U-235 as reactor fuel. Rather, current licenses permit licensees "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". Similarly, no quantitative limit is specified for 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. Also, up to 100 millicuries per isotope of any byproduct material and 100 milligrams per isotope of any source or special nuclear material for sample analysis or instrument calibration is permitted to be received, possessed, and used without itemized identification in current operating licenses.

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This more flexible license language is based on staff review of licensees' radioactive materials safety programs and capabilities and on the inclusion in the Technical Specifications of requirements for leak testing of all radioactive sources.

Evaluation

The requested increase in the amount of U-235 as reactor fuel presently authorized in the Surry 1 and Surry 2 operating licenses results from the failure of the initial license to include sufficient authorization for normal reactor fuel inventory that is necessary for operation, including refueling, of the plants. Rather than simply increase the numerical quantity of U-235 to the amount requested by the licensee, the staff considered the acceptability of incorporating into the Surry licenses the more general license language regarding receipt, possession, and use of byproduct, source, and special nuclear material currently being used in new operating licenses.

The personnel qualifications, facilities, equipment, and procedures for handling the byproduct, source, and special nuclear material sources utilized for reactor startup and equipment calibration at the Surry Station were reviewed. The staff concludes that there is reasonable assurance that these sources will be stored and used in a manner to meet the applicable radiation protection provisions of 10 CFR Parts 20 and 30. To provide added assurance that leakage from radioactive material sources do not exceed allowable limits, a requirement for periodic leak testing of such sources should be added to the Technical Specifications. In addition, the Technical Specifications should be amended to require that a complete inventory of radioactive materials in possession be maintained current at all times.

With these additions to the Technical Specifications and based on the staff's review of the licensee's capabilities for handling radioactive materials, the staff concludes that the incorporation of the license language currently being used for specifying the limitations on the amount of licensed radioactive materials does not increase the probability or consequences of any accident previously considered and does not reduce any margin of safety as defined in the basis of any technical specification. It does not create the possibility of an accident or malfunction of a different type than any previously evaluated.

Conclusion

We have concluded, based on the reasons discussed above, that the authorization of these changes does not involve a significant hazards

consideration. We also conclude that there is reasonable assurance (i) that the activities authorized by these amendments 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 and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

KS/ Morton Fairtile
Operating Reactors Branch #1
Directorate of Licensing

Original signed by:
Robert A. Purple

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

Date: OCT 31 1974

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UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NOS. 50-280 AND 50-281

VIRGINIA ELECTRIC AND POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

Notice is hereby given that the U.S. Atomic Energy Commission (the Commission) has issued Amendment No. 2 to Facility Operating Licenses No. DPR-32 and DPR-37 issued to Virginia Electric and Power Company which revised Technical Specifications for operation of the Surry Power Station, Units 1 and 2, located in Surry County, Virginia. The amendments are effective as of the date of issuance.

These amendments permit the licensee to possess special nuclear material in the form of reactor fuel in the amount required for reactor operation. In addition, a new technical specification is added to Appendix A of each license that requires leakage testing of miscellaneous radioactive materials sources.

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.

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For further details with respect to this action, see (1) the application for amendments dated August 19, 1974, (2) Amendments No. 2 to Licenses No. DPR-32 and DPR-37, with any attachments, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C. and at the Swam Library, College of William and Mary, Williamsburg, Virginia 23185.

A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Atomic Energy Commission, Washington, D.C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing - Regulation.

Dated at Bethesda, Maryland, this **OCT 31 1974**

FOR THE ATOMIC ENERGY COMMISSION

Original signed by:
Robert A. Purple

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

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