

JAN 31 1978

Docket No. 50-250

Florida Power & Light Company
ATTN: Dr. R. E. Uhrig
Vice President
P. O. Box 013100
Miami, Florida 33101

Gentlemen:

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The Commission has issued the enclosed Amendment No. 32 to Facility Operating License No. DPR-31 for the Turkey Point Nuclear Generating Unit No. 3. The amendment is in response to your application dated December 29, 1977, as supplemented by your letter of January 18, 1978.

This operating license amendment permits continued operation of Turkey Point Unit No. 3 for at least the next six equivalent full-power months of operation. A new requirement, item 5, has been added to paragraph 3.E of the license requiring that you either: (1) shutdown at the end of six equivalent full-power months of operation and inspect the steam generators, if an inspection of the steam generators has not been performed within this six month period, or (2) submit an acceptable analysis of the susceptibility for stress corrosion cracking of tubing to explicitly justify continued operation of Unit No. 3 beyond the authorized six equivalent months of operation. The analysis justifying continued operation must be submitted at least 45 days prior to the expiration date of the authorized period of operation.

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

Sincerely,

Original signed by

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosures:

1. Amendment No. 32
2. Safety Evaluation
3. Federal Register Notice

OFFICE	ORB#3	ORB#3	OELD	ORB#3	
SURNAME	CParrish	RClark	5 50-0888	GLear	
DATE	1/25/78	1/25/78	1/30/78	1/31/78	

cc:

Mr. Robert Lowenstein, Esquire
Lowenstein, Newman, Reis & Axelrad
1025 Connecticut Avenue, N. W.
Suite 1214
Washington, D. C. 20036

Mr. Ed Maroney
Bureau of Intergovernmental Relations
725 South Bronough Street
Tallahassee, Florida 32304

Honorable Dewey Knight
County Manager of Metropolitan
Dade County
Miami, Florida 33130

Florida Power & Light Company
ATTN: Mr. Henry Yaeger
Plant Manager
Turkey Point Plant
P. O. Box 013100
Miami, Florida 33101

Chief, Energy Systems Analysis Branch (AW-459)
Office of Radiation Programs
U. S. Environmental Protection Agency
Room 645, East Tower
401 M Street, S. W.
Washington, D. C. 20460

U. S. Environmental Protection Agency
Region VI Office
ATTN: EIS COORDINATOR
345 Courtland Street, N. E.
Atlanta, Georgia 30308

Environmental & Urban Affairs Library
Florida International University
Miami, Florida 33199

Mr. Normal A. Coll, Esquire
Steel, Hector and Davis
1400 Southeast First National Bank Building
Miami, Florida 33131



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

FLORIDA POWER AND LIGHT COMPANY

DOCKET NO. 50-250

TURKEY POINT NUCLEAR GENERATING UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 32
License No. DPR-31

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated December 29, 1977, as modified on January 18, 1978, 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, paragraph 3.E of Facility Operating License No. DPR-31 is hereby amended to read as follows:

"E. Steam Generator Inspections

5. In order to perform an inspection of the steam generators, Unit No. 3 shall be brought to the cold shutdown condition within six equivalent full-power months of operation from February 1, 1978, unless: (1) an inspection of the steam generators is within this six month period as a result of the requirements in 2, 3 and 4 above, or (2) an acceptable analysis of the susceptibility for stress corrosion cracking of tubing is submitted to explicitly justify continued operation of Unit No. 3 beyond the authorized six equivalent months of operation. Any analysis justifying continued operation must be submitted at least 45 days prior to the expiration date of the authorized six equivalent months of operation.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Date of Issuance: January 31, 1978



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 32 TO LICENSE NO. DPR-31

FLORIDA POWER AND LIGHT COMPANY

TURKEY POINT NUCLEAR GENERATING UNIT NO. 3

DOCKET NO. 50-250

Introduction

By letter dated December 29, 1977, (L-77-383), as supplemented by letter dated January 18, 1978 (L-78-24), Florida Power & Light Company (FPL) submitted the results of their most recent steam generator tube inspection performed at Turkey Point Unit No. 3 including their plugging criteria applied to the three steam generators. This inspection was required by license Amendment No. 27, dated August 16, 1977. This amendment also requires that NRC approval be obtained prior to resumption of power operation.

Discussion and Evaluation

Steam Generator Tube Inspection Program

The steam generator tube inspection program addressed both tube wastage and denting. This program is fully described in our Order for Modification regarding Turkey Point Unit No. 4 dated August 3, 1977. The tubes were inspected for wastage in accordance with the requirement of Regulatory Guide 1.83. Gauging was done for all three steam generators in order to assess the extent and pattern of tube denting. On the hot leg side, all tubes near the tubelane which are predicted to be bounded by the 12.5% hoop strain contour were gauged. Additional gauging was done at wedge and patch plate regions. Some gauging was also performed on cold leg tubes of Steam Generator 3B since this generator contains the most severely deformed support plate and highest predicted cold leg tube hoop strains.

Results of Inspection and Corrective Action

As discussed in the licensee's submittal of December 29, 1977, results of the inspection program showed that five tubes had to be plugged due to wastage. Gauging results indicate that any tube near the tubelane which restricted any size probe was bounded by the 15% hoop strain contour. The number of tubes which would not allow passage of the 0.540" probe were as follows: 11 in generator 3A, 27 in 3B, and 13 in 3C. All these tubes have been plugged. The implementation of the plugging criteria discussed below, combined with previous plugging for various causes, resulted in a total of 11.7% of the tubes being plugged.

The inspection program performed is identical to programs followed at Turkey Point Unit No. 4 and Surry Units Nos. 1 and 2. These programs have been developed over the course of time in consultation with NRC staff and have been determined to be acceptable by the NRC. The inspection of the Unit No. 3 steam generators determined that the tube degradation which has occurred is similar to but not as extensive as the tube degradation which has been found at Unit No. 4 and Surry Units Nos. 1 and 2. Further, the results of this inspection indicates that no unexpected degradation is occurring and no new phenomenon was uncovered. We conclude that the inspection program conducted by the licensee on the Unit No. 3 steam generators is acceptable.

Plugging Criteria

The plugging criteria implemented by the licensee is essentially the same as that used at other units with similarly degraded steam generator tubes. As in the previously accepted plugging criteria, FPL has performed preventive plugging based on the projected growth of the critical tube hoop strain contours predicted by the finite element analysis program. This same computer program has been utilized to establish the extent of preventive plugging necessary for continued operation of the Turkey Point Unit No. 4 and Surry Units Nos. 1 and 2. The preventive plugging performed by the licensee bounds those tubes which may be anticipated to undergo strains which could lead to stress corrosion cracking during the next six or more months of operation. The preventative plugging conducted by the licensee during the current outage of Unit No. 3 justifies operation of the Turkey Point Unit No. 3 steam generators for at least six (6) effective full power months (EFPM).

Evaluation of Request to Resume Power Operation

Our Safety Evaluation Report attached to Amendment No. 27 to DPR-31 dated August 16, 1977 evaluated the background information concerning "denting" of steam generator tubes which has been experienced at Surry Units Nos. 1 and 2 and Turkey Point Units Nos. 3 and 4. This background information is incorporated by reference. This safety evaluation discusses the additional information developed during the inspection of Turkey Point Unit No. 3 in November and December 1977 and reported in the licensee's submittals of December 29, 1977 and January 18, 1978.

The licensee requested that Turkey Point Unit No. 3 be permitted to continue to operate, within the constraints of the existing facility operating License, through fuel Cycle No. 5. However, as discussed above the licensee has submitted an analysis indicating that the

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-250FLORIDA POWER AND LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 32 to Facility Operating License No. DPR-31, issued to Florida Power and Light Company, for operation of the Turkey Point Nuclear Generating Unit No. 3 located in Dade County, Florida. The amendment is effective as of the date of issuance.

The amendment to the operating license will allow continued operation of Turkey Point Unit No. 3 for the next six equivalent full-power months of operation (EFPM) at which time the steam generators shall be inspected, unless 1) an inspection of the steam generators has previously been performed within the six EFPM period or 2) an acceptable analysis of the susceptibility for stress corrosion cracking of tubing is submitted to explicitly justify continued operation beyond the authorized six EFPM period.

The application for the amendment 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 amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

preventative plugging implemented only justifies approximately six (6) months of operation under the same operating limits incorporated in Amendment No. 27 dated August 16, 1977. Therefore unless additional information is provided by the licensee to justify a longer period of operation, Turkey Point Unit No. 3 should be shutdown at the end of six (6) EFPM of operation and the steam generators reprobbed to ascertain the extent and pattern of tube denting and the results of this gauging program submitted to the NRC for review and evaluation.

Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves 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 this amendment.

Conclusion

We have concluded, on the basis of the considerations discussed above with respect to the inspection program, inspection results and tube plugging criteria, in addition to the evaluation made in the SER attached to License Amendment No. 27 dated August 16, 1977, that the Turkey Point Unit No. 3 steam generator tubes have sufficient integrity with an adequate margin of safety so that the proposed additional period of operation will not significantly affect the ability of tubes to withstand normal operating restrictions specified in Amendment No. 27.

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

Dated: January 31, 1978

- 2 -

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 29, 1977, as modified by Letter dated January 18, 1978, (2) Amendment No. 32 to License No. DPR-31, 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, N. W. Washington, D. C. and at the Environmental & Urban Affairs Library, Florida International University, Miami, Florida 33199. 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 Operating Reactors.

Dated at Bethesda, Maryland this 31 day of January 1978.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

B. Jones
DO NOT REMOVE
Posted
 UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D. C. 20555

January 31, 1978

Docket No. 50-250

Am-32 to
DPR-31

Florida Power & Light Company
 ATTN: Dr. R. E. Uhrig
 Vice President
 P. O. Box 013100
 Miami, Florida 33101

Gentlemen:

The Commission has issued the enclosed Amendment No. 32 to Facility Operating License No. DPR-31 for the Turkey Point Nuclear Generating Unit No. 3. The amendment is in response to your application dated December 29, 1977, as supplemented by your letter of January 18, 1978.

This operating license amendment permits continued operation of Turkey Point Unit No. 3 for at least the next six equivalent full-power months of operation. A new requirement, item 5, has been added to paragraph 3.E of the license requiring that you either: (1) shutdown at the end of six equivalent full-power months of operation and inspect the steam generators, if an inspection of the steam generators has not been performed within this six month period, or (2) submit an acceptable analysis of the susceptibility for stress corrosion cracking of tubing to explicitly justify continued operation of Unit No. 3 beyond the authorized six equivalent months of operation. The analysis justifying continued operation must be submitted at least 45 days prior to the expiration date of the authorized period of operation.

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

Sincerely,

A handwritten signature in cursive script that reads "George Lear".

George Lear, Chief
 Operating Reactors Branch #3
 Division of Operating Reactors

Enclosures:

1. Amendment No. 32
2. Safety Evaluation
3. Federal Register Notice

cc:

Mr. Robert Lowenstein, Esquire
Lowenstein, Newman, Reis & Axelrad
1025 Connecticut Avenue, N. W.
Suite 1214
Washington, D. C. 20036

Mr. Ed Maroney
Bureau of Intergovernmental Relations
725 South Bronough Street
Tallahassee, Florida 32304

Honorable Dewey Knight
County Manager of Metropolitan
Dade County
Miami, Florida 33130

Florida Power & Light Company
ATTN: Mr. Henry Yaeger
Plant Manager
Turkey Point Plant
P. O. Box 013100
Miami, Florida 33101

Chief, Energy Systems Analysis Branch (AW-459)
Office of Radiation Programs
U. S. Environmental Protection Agency
Room 645, East Tower
401 M Street, S. W.
Washington, D. C. 20460

U. S. Environmental Protection Agency
Region VI Office
ATTN: EIS COORDINATOR
345 Courtland Street, N. E.
Atlanta, Georgia 30308

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

FLORIDA POWER AND LIGHT COMPANY

DOCKET NO. 50-250

TURKEY POINT NUCLEAR GENERATING UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 32
License No. DPR-31

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated December 29, 1977, as modified on January 18, 1978, 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, paragraph 3.E of Facility Operating License No. DPR-31 is hereby amended to read as follows:

"E. Steam Generator Inspections

5. In order to perform an inspection of the steam generators, Unit No. 3 shall be brought to the cold shutdown condition within six equivalent full-power months of operation from February 1, 1978, unless: (1) an inspection of the steam generators is within this six month period as a result of the requirements in 2, 3 and 4 above, or (2) an acceptable analysis of the susceptibility for stress corrosion cracking of tubing is submitted to explicitly justify continued operation of Unit No. 3 beyond the authorized six equivalent months of operation. Any analysis justifying continued operation must be submitted at least 45 days prior to the expiration date of the authorized six equivalent months of operation.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Date of Issuance: January 31, 1978



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 32 TO LICENSE NO. DPR-31

FLORIDA POWER AND LIGHT COMPANY

TURKEY POINT NUCLEAR GENERATING UNIT NO. 3

DOCKET NO. 50-250

Introduction

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As discussed in the licensee's submittal of December 29, 1977, results of the inspection program showed that five tubes had to be plugged due to wastage. Gauging results indicate that any tube near the tubelane which restricted any size probe was bounded by the 15% hoop strain contour. The number of tubes which would not allow passage of the 0.540" probe were as follows: 11 in generator 3A, 27 in 3B, and 13 in 3C. All these tubes have been plugged. The implementation of the plugging criteria discussed below, combined with previous plugging for various causes, resulted in a total of 11.7% of the tubes being plugged.

The inspection program performed is identical to programs followed at Turkey Point Unit No. 4 and Surry Units Nos. 1 and 2. These programs have been developed over the course of time in consultation with NRC staff and have been determined to be acceptable by the NRC. The inspection of the Unit No. 3 steam generators determined that the tube degradation which has occurred is similar to but not as extensive as the tube degradation which has been found at Unit No. 4 and Surry Units Nos. 1 and 2. Further, the results of this inspection indicates that no unexpected degradation is occurring and no new phenomenon was uncovered. We conclude that the inspection program conducted by the licensee on the Unit No. 3 steam generators is acceptable.

Plugging Criteria

The plugging criteria implemented by the licensee is essentially the same as that used at other units with similarly degraded steam generator tubes. As in the previously accepted plugging criteria, FPL has performed preventive plugging based on the projected growth of the critical tube hoop strain contours predicted by the finite element analysis program. This same computer program has been utilized to establish the extent of preventive plugging necessary for continued operation of the Turkey Point Unit No. 4 and Surry Units Nos. 1 and 2. The preventive plugging performed by the licensee bounds those tubes which may be anticipated to undergo strains which could lead to stress corrosion cracking during the next six or more months of operation. The preventative plugging conducted by the licensee during the current outage of Unit No. 3 justifies operation of the Turkey Point Unit No. 3 steam generators for at least six (6) effective full power months (EFPM).

Evaluation of Request to Resume Power Operation

Our Safety Evaluation Report attached to Amendment No. 27 to DPR-31 dated August 16, 1977 evaluated the background information concerning "denting" of steam generator tubes which has been experienced at Surry Units Nos. 1 and 2 and Turkey Point Units Nos. 3 and 4. This background information is incorporated by reference. This safety evaluation discusses the additional information developed during the inspection of Turkey Point Unit No. 3 in November and December 1977 and reported in the licensee's submittals of December 29, 1977 and January 18, 1978.

The licensee requested that Turkey Point Unit No. 3 be permitted to continue to operate, within the constraints of the existing facility operating License, through fuel Cycle No. 5. However, as discussed above the licensee has submitted an analysis indicating that the

preventative plugging implemented only justifies approximately six (6) months of operation under the same operating limits incorporated in Amendment No. 27 dated August 16, 1977. Therefore unless additional information is provided by the licensee to justify a longer period of operation, Turkey Point Unit No. 3 should be shutdown at the end of six (6) EFPM of operation and the steam generators reprobbed to ascertain the extent and pattern of tube denting and the results of this gauging program submitted to the NRC for review and evaluation.

Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves 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 this amendment

Conclusion

We have concluded, on the basis of the considerations discussed above with respect to the inspection program, inspection results and tube plugging criteria, in addition to the evaluation made in the SER attached to License Amendment No. 27 dated August 16, 1977, that the Turkey Point Unit No. 3 steam generator tubes have sufficient integrity with an adequate margin of safety so that the proposed additional period of operation will not significantly affect the ability of tubes to withstand normal operating restrictions specified in Amendment No. 27.

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

Dated: January 31, 1978

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-250FLORIDA POWER AND LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 32 to Facility Operating License No. DPR-31, issued to Florida Power and Light Company, for operation of the Turkey Point Nuclear Generating Unit No. 3 located in Dade County, Florida. The amendment is effective as of the date of issuance.

The amendment to the operating license will allow continued operation of Turkey Point Unit No. 3 for the next six equivalent full-power months of operation (EFPM) at which time the steam generators shall be inspected, unless 1) an inspection of the steam generators has previously been performed within the six EFPM period or 2) an acceptable analysis of the susceptibility for stress corrosion cracking of tubing is submitted to explicitly justify continued operation beyond the authorized six EFPM period.

The application for the amendment 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 amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

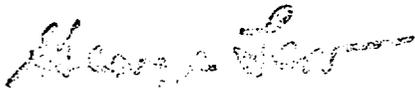
- 2 -

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 29, 1977, as modified by letter dated January 18, 1978, (2) Amendment No. 32 to License No. DPR-31, 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, N. W. Washington, D. C. and at the Environmental & Urban Affairs Library, Florida International University, Miami, Florida 33199. 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 Operating Reactors.

Dated at Bethesda, Maryland this 31 day of January 1978.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lush, Chief
Operating Reactors Branch #3
Division of Operating Reactors