

December 27, 2001

Mr. Oliver D. Kingsley, President
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: ISSUANCE OF AMENDMENTS FOR LASALLE COUNTY STATION,
UNITS 1 AND 2 (TAC NOS. MB2249 AND MB2250)

Dear Mr. Kingsley:

The U.S. Nuclear Regulatory Commission (Commission) has issued the enclosed Amendment No. 152 to Facility Operating License No. NPF-11 and Amendment No. 138 to Facility Operating License No. NPF-18 for the LaSalle County Station, Units 1 and 2, respectively. The amendments are in response to your application dated June 15, 2001, as supplemented by letter dated November 12, 2001.

The amendments change the Technical Specifications (TS) by adding the ATRIUM 10 fuel analytical methods to TS Section 5.6.5, "Core Operating Limits Report (COLR)," to support the initial insertion of Framatome Advanced Nuclear Fuel, Inc., ATRIUM 10 fuel into LaSalle County Station, Unit 1, during the upcoming refueling outage scheduled to begin on January 10, 2002. The TSs for Unit 2 are also being amended in order to maintain consistency between the two Units' common TSs.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

/RA/

William A. Macon, Jr., Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos.: 50-373
50-374

Enclosures: 1. Amendment No. 152 to NPF-11
2. Amendment No. 138 to NPF-18
3. Safety Evaluation

cc w/encls: See next page

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50-374

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GHill (4), T5C3 WBeckner, O13H15 ACRS, T2E26
DHills, RIII WMacon, Jr. AMendiola
CRosenberg THuang

ADAMS Accession Number: ML013330120

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OFFICIAL RECORD COPY

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Units 1 and 2

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- 2 -

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Units 1 and 2

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EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-373

LASALLE COUNTY STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 152
License No. NPF-11

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by the Exelon Generation Company, LLC (the licensee), dated June 15, 2001, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 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.
2. Accordingly, the license is amended by changes to the Technical Specifications (TS) as indicated in the enclosure to this license amendment and paragraph 2.C.(2) of the Facility Operating License No. NPF-11 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 152, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Anthony J. Mendiola, Chief, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the TS

Date of Issuance: December 27, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 152

FACILITY OPERATING LICENSE NO. NPF-11

DOCKET NO. 50-373

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change.

Remove Pages

5.6-3

5.6-4

Insert Pages

5.6-3

5.6-4

EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-374

LASALLE COUNTY STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 138
License No. NPF-18

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by the Exelon Generation Company, LLC (the licensee), dated June 15, 2001, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 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.
2. Accordingly, the license is amended by changes to the Technical Specifications (TS) as indicated in the enclosure to this license amendment and paragraph 2.C.(2) of the Facility Operating License No. NPF-18 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 138, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Anthony J. Mendiola, Chief, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the TS

Date of Issuance: December 27, 2001

ATTACHMENT TO LICENSE AMENDMENT NO. 138

FACILITY OPERATING LICENSE NO. NPF-18

DOCKET NO. 50-374

Replace the following pages of the Appendix "A" Technical Specifications (TS) with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change.

Remove Pages

5.6-3

5.6-4

Insert Pages

5.6-3

5.6-4

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 152 TO FACILITY OPERATING LICENSE NO. NPF-11
AND AMENDMENT NO. 138 TO FACILITY OPERATING LICENSE NO. NPF-18
EXELON GENERATION COMPANY, LLC
LASALLE COUNTY STATION, UNITS 1 AND 2
DOCKET NOS. 50-373 AND 50-374

1.0 INTRODUCTION

By letter dated June 15, 2001, as supplemented by letter dated November 12, 2001, Exelon Generation Company, LLC (Exelon, the licensee) proposed changes to the Technical Specification (TS) for LaSalle County Station, Units 1 and 2. The November 12, 2001, letter provided clarifying information in response to a staff request for additional information. It did not change the scope of the original notice or the proposed no significant hazards consideration determination published in the *Federal Register* on August 8, 2001 (66 FR 41618). The proposed changes to the TS add the ATRIUM 10 fuel analytical methods to TS Section 5.6.5, "Core Operating Limits Report (COLR)," to support the initial insertion of Framatome Advanced Nuclear Fuel, Inc., ATRIUM 10 fuel into LaSalle County Station, Unit 1, during the upcoming refueling outage scheduled to begin on January 10, 2002. The TSs for Unit 2 are also being amended in order to maintain consistency between the two Units' common TSs. Specifically, the proposed changes include revising items 9 and 13, and adding item 20 in TS 5.6.5.b.

2.0 EVALUATION

The licensee described the proposed changes to TS 5.6.5.b such that: (1) item 9 updates the current reference with a more recent version of the STAIF code to improve the accuracy of stability calculations and to validate adequate decay ratio margin in the stability region, (2) item 13 removes an outdated analytical method and replaces it with an analytical method required for critical power ratio (CPR) monitoring of the ATRIUM 10 fuel, and (3) item 20 reflects the use of the Framatome fuel performance RODEX2A code in the analyses of the new ATRIUM 10 fuel.

The staff has reviewed the justification for the proposed changes to TS 5.6.5.b, items 9, 13, and 20, and found them acceptable because (1) item 9 (Volume 4 - BWR Stability Analysis: Assessment of STAIF with input from MICROBURN-B2, EMF-CC-074(P)(A)) is an approved updated stability code, (2) item 13 (SPCB Critical Power Correlation, EMF-2209(P)(A)) is an approved updated CPR correlation for ATRIUM 10 fuel, and (3) item 20 (RODEX2A (BWR) Fuel Rod Thermal-Mechanical Evaluation Model, EMF-85-74(P)(A)) is an approved topical report to allow the maximum burnup for the ATRIUM 9B at the end of Unit 1 Cycle 10 from 50 gigawatts-days per metric ton uranium (GWD/MTU) to 55 GWD/MTU fuel rod average burnup.

Based on the staff's review, the proposed changes to TS 5.6.5.b are in accordance with the guidance specified in Generic Letter 88-16 and are, therefore, acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Illinois State official was notified of the proposed issuance of the amendments. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendments change a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (66 FR 41618). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: T. Huang

Date: December 27, 2001