

Docket No. 50-387

APR 30 1985

Mr. Norman W. Curtis
Vice President
Engineering and Construction Nuclear
Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Dear Mr. Curtis:

SUBJECT: AMENDMENT NO. 42 TO FACILITY OPERATING LICENSE NO. NPF-14 - SUSQUEHANNA
STEAM ELECTRIC STATION, UNIT 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 42 to Facility Operating License No. NPF-14 for the Susquehanna Steam Electric Station, Unit 1. The amendment is in response to your letters dated October 30, 1984 and February 20, 1985. The amendment deletes License Condition 2.C.(4)(b) which requires that a new stability analysis be provided prior to start-up following the first refueling outage. Since you have already incorporated into your Technical Specification (TS) a method to detect and suppress power oscillations the intent of this license condition has been met.

A copy of the related safety evaluation supporting Amendment No. 42 to Facility Operating License NPF-14 is enclosed.

Sincerely,

Original signed by:

A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

Enclosures:

1. Amendment No. 42 to NPF-14
2. Safety Evaluation

cc: See next page

Distribution:

See next page

*Previous concurrence concurred on by:

LB#2/DL/LA
*EHylton
04/04/85

LB#2/DL/PM
*MCampagnone:lb
04/03/85

OELD
*JGoldberg
04/05/85

LB#2/DL/BC
*ASchwencer
04/04/85
4/30/85

ADL/DL
TMNovak
04/12/85

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PDR ADOCK 05000387
P PDR

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A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

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Distribution:

See next page

*Previous concurrence concurred on by:

LB#2/DL/LA
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04/11/85

LB#2/DL/PM
*M. Magnone:lb
04/03/85

OELD J. Goldberg
04/5/85

LB#2/DL/BC
ASchwencer
04/4/85

AD/L/DL
TMNovak
04/ /85

*went to
notes
Thompson
No issuance
under after
4/27/85 when
notice period
expired*



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

APR 30 1985

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Vice President
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Sincerely,

A handwritten signature in cursive script, appearing to read "A. Schwencer", is written over the typed name.

A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

Enclosures:

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2. Safety Evaluation

cc: See next page

Susquehanna

Mr. Norman W. Curtis
Vice President
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2 North Ninth Street
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Allentown, Pennsylvania 18101

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Susquehanna

cc: Governor's Office of State Planning & Development
Attn: Coordinator, State Clearinghouse
P O. Box 1323
Harrisburg, Pennsylvania 17120

Mr. Bruce Thomas, President
Board of Supervisors
R. D. #1
Berwick, Pennsylvania 18603

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PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE, INC.
DOCKET NO. 50-387
SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 42
License No. NPF-14

1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
 - A. The application for an amendment filed by the Pennsylvania Power & Light Company dated October 30, 1984 as supplemented on February 20, 1985 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;
 - 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 the deletion of License Condition 2.C.(4)(b) of Facility Operating License No. NPF-14.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by

Hugh L. Thompson, Jr.

Hugh L. Thompson, Jr., Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: APR 30 1985

*Previous concurrence concurred on by:
LB#2/DL/LA *LB#2/DL/PM LB#2/DL/BC
Eky/Con McCardone:lb ASchwencer
04/14/85 04/03/85 04/14/85

OELD ADL/DL D/DL
J. Go 1/85 TMNovak HThompson
04/5/85 04/12/85 04/29/85

*subject
to noted
change -
no issuance
until after 4/27/85
when notice period expires*

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PDR ADOCK 05000387
P PDR




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

PENNSYLVANIA POWER & LIGHT COMPANY
ALLEGHENY ELECTRIC COOPERATIVE, INC.
DOCKET NO. 50-387
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 - 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 the deletion of License Condition 2.C.(4)(b) of Facility Operating License No. NPF-14.
3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Hugh L. Thompson, Jr., Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: APR 30 1985



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

SAFETY EVALUATION
AMENDMENT NO. 42 TO NPF-14
SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1
DOCKET NO. 50-387

Introduction

Pennsylvania Power and Light Company has requested (N. W. Curtis (PP&L) to A. Schwencer (NRC) dated October 30, 1984 as supplemented on February 20, 1985) deletion of license condition 2.C.(4)(b) which reads as follows:

"Prior to startup following the first refueling outage, PP&L shall provide, for NRC review and approval, a new stability analysis, indicating the results for appropriate exposure core conditions."

Subsequent to the imposition of this license condition PP&L has implemented new technical specifications for Susquehanna Units 1 and 2 which provide procedures for detecting and suppressing power oscillations induced by a thermal hydraulic instability.

Evaluation

The staff finds that the intent of this license condition has been satisfied. The staff has based its finding on the fact that License Condition 2.C.(4)(b) is more restrictive than GDC 12 in that it does not include the option to detect and suppress power oscillations.

In the Code of Federal Regulations (10 CFR 50 Appendix A), General Design Criteria (GDC) 12, "Suppression of Reactor Power Oscillations," states:

The reactor core and associated coolant, control, and protection systems shall be designed to assure that power oscillations which can result in conditions exceeding specified acceptable fuel design limits are not possible or can be reliably and readily detected and suppressed.

With the approval of Technical Specifications implementing the guidance of General Electric Service Information Letter No. 380 (GE-SIL-380), Revision 1, the licensee's procedures for detecting and suppressing power oscillations at SSES Units 1 and 2 were implemented on October 9, 1984. Our October 9, 1984, safety evaluation accompanying Amendment No. 24 to the Unit 1 and Amendment No. 2 to the Unit 2 licenses, states that the changes proposed in the licensee's May 15, 1984, letter on the subject of BWR Core Thermal Hydraulic Stability "were prudent and acceptably resolve ... our concerns...assuming long term single loop operation is not permitted."

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In summary, the NRC staff, having previously reviewed and approved these changes to the technical specifications, finds that, together with PP&L's original stability analysis, they give adequate assurance that GDC 12 is satisfied. Therefore, no new stability analysis is required for Cycle 2 and the Unit 1 license condition 2.C.(4)(b) may be deleted from the license.

Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets 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 this amendment.

Conclusion

We have 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, and (2) 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: **APR 30 1985**